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NATIONAL WATER QUALITY NETWORK. SUPPLEMENT 1

Robert A. Taft Sanitary Engineering Center
Cincinnati, Ohio

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National Water Quality Network

SUPPLEMENT 1

STATISTICAL SUMMARY OF SELECTED DATA

October 1, 1957 - September 30, 1958

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A Federal, State and local cooperative report on water quality determinations of surface waters at selected locations throughout the United States

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Water Supply and Water Pollution Control Branch **Robert A. Taft Sanitary Engineering Center**

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Supplement I

1959

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NATIONAL WATER QUALITY NETWORK
STATISTICAL SUMMARY OF SELECTED DATA

On June 12, 1959, the Public Health Service issued PHS Publication No. 663, "National Water Quality Network Annual Compilation of Data, October 1, 1957-September 30, 1958," a compilation of water quality data representing the information collected during the first year of operation of the National Water Quality Network.

This Supplement to the original document is a summary of certain segments of the raw data which appear to need immediate consideration because of their urgency or newness -- such as the more recent measures of water quality - radioactivity, organic chemicals and plankton in surface waters. It is not intended to be an exhaustive analysis of the data or an interpretation of what the data may mean. Computations were made and tabulations were prepared for printing on electronic data processing equipment, thus making easily available many comparisons of monthly and annual parameters.

While it is recognized that summary data for one year have limited value in establishing trends in water quality, it is hoped that these tables will stimulate thinking among engineers and others interested in water quality control as to the implications and usefulness of this type of information over a period of time.

Figure 1 shows the locations of Network stations, while Figure 2 shows the outline of the 15 major river basins. The basin outline is used in this analysis only with respect to radioactivity. Organic chemicals and plankton are summarized on a 20-river basis, by name of river.

RADIOACTIVITY

The radioactivity determinations are presented in three sections:

(1) Monthly data for suspended, dissolved, and total alpha, and suspended, dissolved and total beta activity, giving the number of observations, minimum, mean and maximum, first for the United States as a whole, followed by a summary for each basin,

and then by each station. This method of presentation shows all the data for radioactivity for each location or area on a single page. Blank spaces after the opening of the period covered indicate zeros. It should be noted, however, that alpha determinations were not made at most stations late in the period covered, a fact which will be evident from a study of the tables.

Because of relatively high, but short half-life activity in the Columbia River below the Atomic Energy Commission installations, the United States data are also shown excluding the sampling stations on that river.

(2) Deciles. The data for each basin are considered for the whole year. The number of observations, the minimum, mean, median, maximum and the deciles are shown. The deciles should be read as meaning that the indicated percent of the determinations was at or below the level of activity shown in a given column. The deciles are computed figures and not actually observed values. Because of the method of computer programming, it is possible for the 9th decile to be greater than the maximum when the number of observations is small, especially when less than 10. The deciles are shown on six pages,one each for the six categories of radioactivity determination.

(3) Frequency Distributions. The number of observations for each of the determinations is arrayed in frequency distributions by river basin. The class interval for alpha activity is one micromicrocurie per liter, with the first class zero. Intervals for beta are 10 micromicrocuries per liter with the first class zero. Note that for all beta results upper class limits as shown on the tables, except the zero class, are one-tenth of the actual values.

ORGANIC CHEMICALS

(1) Annual Data, Deciles and Frequency Distributions. The data for organic chemicals extracted by the carbon filter technique are arranged by the annual number of observations, minimum, mean, median, maximum and deciles by river, for each of the extractables. Again, as in the case of radioactivity, the deciles are computed and not observed values, and the higher deciles may exceed the actual observed maximum value when there are small numbers of observations. The

deciles are followed by frequency distributions of the observed values for each river. Similar tables are available for each station, but are not included in this publication.

(2) Stream Loadings. The U. S. Geological Survey furnished preliminary and unadjusted flow data for rivers from gauging stations at or near most of sampling points. Using the average daily flow over the sampling period, the parts per billion of organic chemicals extracted by the filter were converted to average number of tons per day of each of the chemicals passing the sampling point. These data are shown for each sampling period over the water year for each station where flow data were available or applicable, together with the average flow for that period. If the quantity of chemical was reported as greater than zero but less than one part per billion (an asterisk in the original data), the tonnage is shown as equivalent to one part per billion followed by a minus sign, and the amount is not included in the addition. If the amount extracted was reported as zero, zero tonnage is shown.

Other computations not reported in this publication, but available in office files are percentage distributions of the fractions of the chloroform extractables and ratios of alcohol to chloroform extractables.

PLANKTON POPULATION

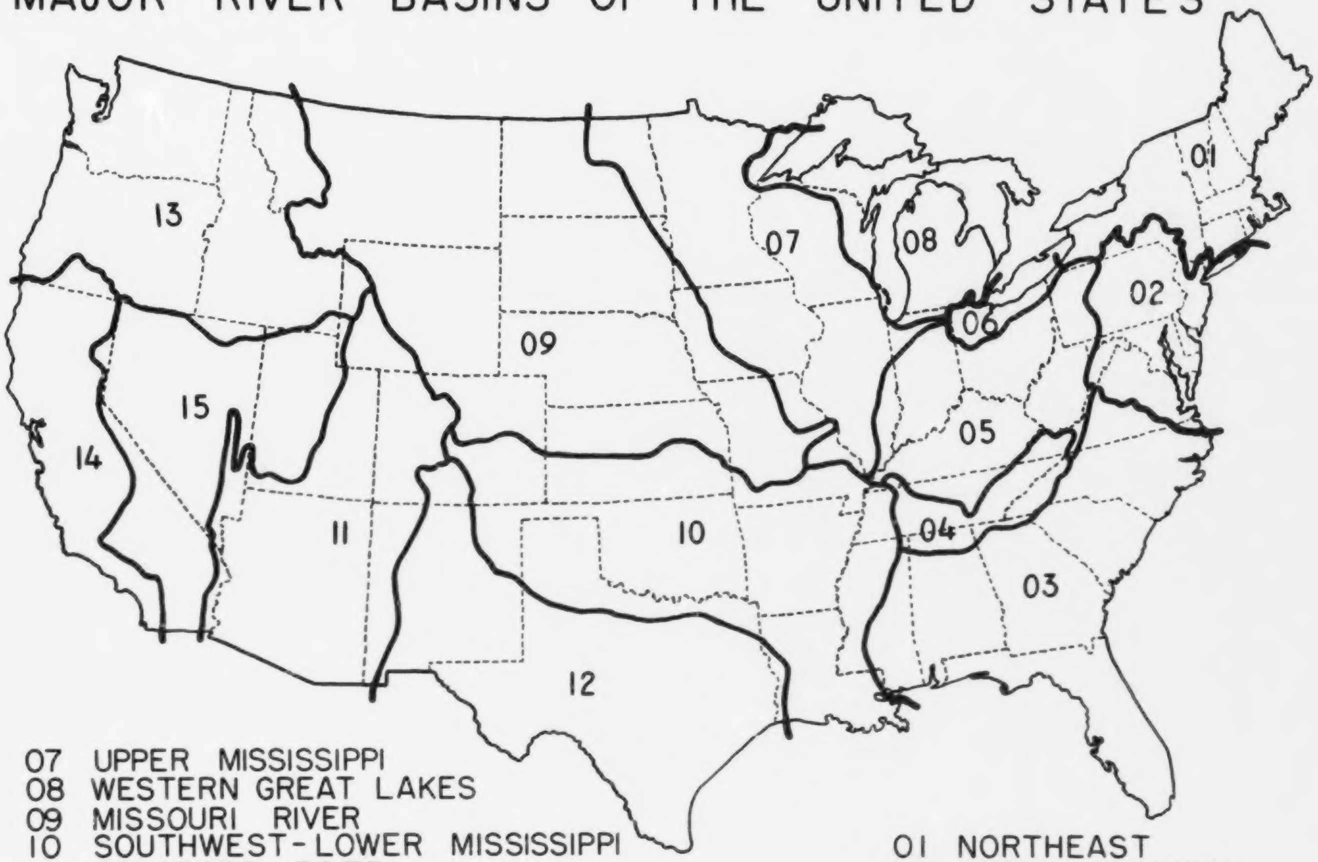
Of the fifteen different groups of organisms reported in the raw data found in PHS Publication No. 663, deciles and frequency distributions by river were shown for four algae groups: total, green coccoid, centric and pennate diatoms. This information, though not reported here, is also available by individual station. For the remaining organisms, data are also available showing the number of observations, the minimum, mean and maximum count for the year by station and river. Further studies are under way on available data showing the relationship of total algae count to various of the so-called conventional tests such as pH, temperature, acidity, and BOD.

PHS Water Quality Basic Data Program
NETWORK OF SAMPLING STATIONS

Figure I

In Operation
July 1, 1958 - June 30, 1959

MAJOR RIVER BASINS OF THE UNITED STATES



07 UPPER MISSISSIPPI
08 WESTERN GREAT LAKES
09 MISSOURI RIVER
10 SOUTHWEST-LOWER MISSISSIPPI
11 COLORADO RIVER
12 WESTERN GULF
13 PACIFIC NORTHWEST
14 CALIFORNIA
15 GREAT BASIN

01 NORTHEAST
02 NORTH ATLANTIC
03 SOUTHEAST
04 TENNESSEE RIVER
05 OHIO RIVER
06 LAKE ERIE

Figure II

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA U. S. TOTAL	NO		74	100	112	116	150	32			8	39	57
	MIN												
	MEAN		3	2	1	1	3	2			7	2	2
	MAX		89	20	21	11	18	16			22	36	23
DISSOLVED ALPHA U. S. TOTAL	NO		74	100	112	116	149	33			8	38	57
	MIN												
	MEAN		3	1	2	2	1	2			12	5	2
	MAX		46	8	12	14	11	13			29	32	11
TOTAL ALPHA U. S. TOTAL	NO		74	100	112	116	149	32			8	38	54
	MIN												
	MEAN		6	3	3	3	4	3			19	7	4
	MAX		89	21	24	14	19	18			42	37	31
SUSPENDED BETA U. S. TOTAL	NO		74	100	112	116	151	158	150	184	154	163	202
	MIN												
	MEAN		20	18	15	14	27	34	50	35	92	40	34
	MAX		167	165	99	173	233	302	856	396	1001	663	589
DISSOLVED BETA U. S. TOTAL	NO		74	100	112	116	151	160	150	185	154	163	202
	MIN										1		
	MEAN		71	110	69	52	32	50	36	46	83	79	68
	MAX		831	2698	1645	1330	913	1314	508	520	748	1696	1169
TOTAL BETA U. S. TOTAL	NO		74	100	112	116	151	158	150	184	154	163	202
	MIN							1	2		3	1	1
	MEAN		91	128	84	66	59	84	86	81	174	120	102
	MAX		876	2863	1743	1443	1007	1334	896	566	1235	1766	1261

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA U. S. EXCL COL R	NO		67	90	104	109	143	30			8	37	53
	MIN												
	MEAN		3	2	1	1	3	2			7	2	2
	MAX		89	20	21	11	18	16			22	36	23
DISSOLVED ALPHA U. S. EXCL COL R	NO		67	90	104	109	142	31			8	36	53
	MIN												
	MEAN		3	2	2	2	1	2			12	5	2
	MAX		46	8	12	11	11	13			29	32	11
TOTAL ALPHA U. S. EXCL COL R	NO		67	90	104	109	142	30			8	36	50
	MIN												
	MEAN		6	3	3	3	4	4			19	7	4
	MAX		89	21	24	12	19	18			42	37	31
SUSPENDED BETA U. S. EXCL COL R	NO		67	90	104	109	144	147	141	171	144	151	188
	MIN												
	MEAN		19	13	11	9	25	31	49	35	96	40	31
	MAX		167	137	91	124	233	302	856	396	1001	663	589
DISSOLVED BETA U. S. EXCL COL R	NO		67	90	104	109	144	149	141	172	144	151	188
	MIN										1		
	MEAN		22	16	14	11	13	31	26	37	70	52	38
	MAX		95	159	79	47	97	1314	158	520	285	375	491
TOTAL BETA U. S. EXCL COL R	NO		67	90	104	109	144	147	141	171	144	151	188
	MIN							1	2		3	1	1
	MEAN		41	30	26	20	38	62	75	73	166	92	69
	MAX		183	240	108	131	277	1334	896	566	1235	869	613

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA NORTHEAST	NO			1	4	5	5	1					1
	MIN												
	MEAN						1						
	MAX						3						
DISSOLVED ALPHA NORTHEAST	NO			1	4	5	5	1					1
	MIN			1									
	MEAN			1	2								
	MAX			1	6								
TOTAL ALPHA NORTHEAST	NO			1	4	5	5	1					1
	MIN			1									
	MEAN			1	2		1						
	MAX			1	6		3						
SUSPENDED BETA NORTHEAST	NO			1	4	5	5	4	4	7	9	6	7
	MIN			3	4				4	2			
	MEAN			3	7	2	4	9	18	20	6	2	3
	MAX			3	10	6	10	25	40	68	16	5	6
DISSOLVED BETA NORTHEAST	NO			1	4	5	5	4	4	7	9	6	7
	MIN			6	1			7	3	2	4	9	11
	MEAN			6	6	3	9	13	8	16	23	18	15
	MAX			6	10	13	20	17	13	25	87	34	19
TOTAL BETA NORTHEAST	NO			1	4	5	5	4	4	7	9	6	7
	MIN			9	6			7	7	6	4	9	12
	MEAN			9	13	5	13	22	26	36	29	20	17
	MAX			9	19	14	30	40	45	81	91	37	25

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA NORTH ATLANTIC	NO		11	11	8	11	15	2					3
	MIN							1					
	MEAN				2		1	3					
	MAX		1	2	13	1	3	5					
DISSOLVED ALPHA NORTH ATLANTIC	NO		11	11	8	11	15	2					3
	MIN												
	MEAN		1			2							
	MAX		12	2	2	7	2						
TOTAL ALPHA NORTH ATLANTIC	NO		11	11	8	11	15	2					3
	MIN							1					
	MEAN		2	1	3	2	1	3					
	MAX		12	3	15	7	4	5					
SUSPENDED BETA NORTH ATLANTIC	NO		11	11	8	11	15	14	15	16	12	12	14
	MIN												
	MEAN		10	10	20	3	19	17	11	8	16	7	16
	MAX		36	32	91	8	116	74	89	49	77	39	116
DISSOLVED BETA NORTH ATLANTIC	NO		11	11	8	11	15	14	15	16	12	12	14
	MIN								2		1	1	
	MEAN		17	16	5	8	9	20	18	23	24	32	30
	MAX		65	77	15	23	30	81	86	92	40	73	112
TOTAL BETA NORTH ATLANTIC	NO		11	11	8	11	15	14	15	16	12	12	14
	MIN			4				2	2	7	13	1	6
	MEAN		27	25	25	10	28	37	28	31	41	39	45
	MAX		81	77	106	24	134	88	97	94	117	81	177

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA													
SOUTHEAST	NO				1	5	10	1					2
	MIN				2								
	MEAN				2								
	MAX				2	1	1						
DISSOLVED ALPHA													
SOUTHEAST	NO				1	5	10	1					2
	MIN				1								
	MEAN				1								
	MAX				1	2	1						
TOTAL ALPHA													
SOUTHEAST	NO				1	5	10	1					2
	MIN				3								
	MEAN				3	1							
	MAX				3	3	2						
SUSPENDED BETA													
SOUTHEAST	NO				1	5	10	8	9	9	3	5	9
	MIN				17			5	7		15		
	MEAN				17	5	21	14	15	18	40	7	3
	MAX				17	8	84	35	37	59	76	13	10
DISSOLVED BETA													
SOUTHEAST	NO				1	5	10	8	9	9	3	5	9
	MIN				11			4	7	6	13	6	1
	MEAN				11	10	13	15	20	15	21	13	35
	MAX				11	21	39	26	31	20	29	22	240
TOTAL BETA													
SOUTHEAST	NO				1	5	10	8	9	9	3	5	9
	MIN				28	5		16	19	18	36	12	1
	MEAN				28	14	34	30	35	32	61	20	38
	MAX				28	24	121	50	68	78	89	33	242

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA													
TENNESSEE RIVER	NO						3	2					1
	MIN						1	1					
	MEAN						1	1					
	MAX						1	1					
DISSOLVED ALPHA													
TENNESSEE RIVER	NO						3	2					1
	MIN							1					
	MEAN							1					
	MAX						1	1					
TOTAL ALPHA													
TENNESSEE RIVER	NO						3	2					1
	MIN						1	2					
	MEAN						1	2					
	MAX						2	2					
SUSPENDED BETA													
TENNESSEE RIVER	NO						3	5	4	3	5	4	4
	MIN						2	14	6				
	MEAN						18	33	32		24	14	11
	MAX						28	54	80		89	52	24
DISSOLVED BETA													
TENNESSEE RIVER	NO						3	5	4	4	5	4	4
	MIN							6	15		31	46	2
	MEAN						4	28	23	21	99	77	35
	MAX						9	44	32	52	258	157	64
TOTAL BETA													
TENNESSEE RIVER	NO						3	5	4	3	5	4	4
	MIN						6	20	38		37	46	4
	MEAN						22	61	55	23	123	90	46
	MAX						37	94	95	52	347	160	88

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA OHIO RIVER	NO		11	12	13	14	17	4			1	3	6
	MIN							1			1		
	MEAN		1	4	1	1	1	2			1	1	1
	MAX		6	20	5	3	5	2			1	3	1
DISSOLVED ALPHA OHIO RIVER	NO		11	12	13	14	17	4			1	3	6
	MIN							1			1		
	MEAN		[illegible]			1		2			1		1
	MAX		4	3	1	5	1	5			1	1	3
TOTAL ALPHA OHIO RIVER	NO		11	12	13	14	17	4			1	3	6
	MIN							2			2		
	MEAN		2	4	1	1	2	4			2	2	2
	MAX		7	21	6	7	5	7			2	4	3
SUSPENDED BETA OHIO RIVER	NO		11	12	13	14	17	18	13	20	18	16	20
	MIN								11		7		
	MEAN		8	24	14	7	18	37	26	15	57	29	8
	MAX		45	137	53	31	58	232	58	72	212	84	52
DISSOLVED BETA OHIO RIVER	NO		11	12	13	14	17	[illegible]	13	20	18	16	20
	MIN								9		12	22	
	MEAN		22	8	10	7	7	16	20	23	64	42	29
	MAX		95	22	45	26	29	51	42	65	200	83	111
TOTAL BETA OHIO RIVER	NO		11	12	13	14	17	18	13	20	18	16	20
	MIN		4		1			8	25		38	31	1
	MEAN		31	31	25	14	26	53	46	38	120	71	36
	MAX		104	159	108	49	70	246	68	96	340	141	127

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA UPPER MISSISSIPPI	NO		7	14	19	20	23	6					4
	MIN												
	MEAN					1	3						5
	MAX		1	3	4	4	10	1					13
DISSOLVED ALPHA UPPER MISSISSIPPI	NO		7	14	19	20	23	6					4
	MIN												1
	MEAN		1	2	1	1	1	1					2
	MAX		2	8	5	8	5	2					4
TOTAL ALPHA UPPER MISSISSIPPI	NO		7	14	19	20	23	6					4
	MIN												1
	MEAN		1	2	2	2	3	1					7
	MAX		3	11	9	12	15	2					16
SUSPENDED BETA UPPER MISSISSIPPI	NO		7	14	19	20	23	20	19	22	20	19	22
	MIN							2		1	1		
	MEAN		10	8	11	7	22	17	18	54	104	40	22
	MAX		22	81	43	37	88	43	61	264	884	303	139
DISSOLVED BETA UPPER MISSISSIPPI	NO		7	14	19	20	23	20	19	22	20	19	22
	MIN							8	17		33	21	21
	MEAN		24	27	15	11	12	24	30	50	75	57	43
	MAX		49	159	38	35	48	46	60	259	258	133	95
TOTAL BETA UPPER MISSISSIPPI	NO		7	14	19	20	23	20	19	22	20	19	22
	MIN		1		8			25	18	13	37	34	21
	MEAN		34	35	26	18	34	41	48	104	179	96	66
	MAX		68	240	58	68	136	85	83	523	994	393	187

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA													
WESTERN GREAT LAK	NO		8	8	9	6	9	3					1
	MIN												
	MEAN												
	MAX		1			1							
DISSOLVED ALPHA													
WESTERN GREAT LAK	NO		8	8	9	6	9	3					2
	MIN												
	MEAN												
	MAX			1	1	2	1	1					
TOTAL ALPHA													
WESTERN GREAT LAK	NO		8	8	9	6	9	3					1
	MIN												
	MEAN					1							
	MAX		1	1	1	3	1	1					
SUSPENDED BETA													
WESTERN GREAT LAK	NO		8	8	9	6	9	8	9	9	4	7	10
	MIN												
	MEAN		5	4	3		5	4	3	3	2	1	5
	MAX		14	10	13	1	16	19	12	7	5	2	17
DISSOLVED BETA													
WESTERN GREAT LAK	NO		8	8	9	6	9	8	9	9	4	7	10
	MIN		2								3		2
	MEAN		10	6	7	6	6	7	16	12	16	21	15
	MAX		22	22	23	28	25	28	54	27	34	45	36
TOTAL BETA													
WESTERN GREAT LAK	NO		8	8	9	6	9	8	9	9	4	7	10
	MIN		3					1	4		3	2	2
	MEAN		15	10	10	6	11	11	19	15	19	22	20
	MAX		30	29	36	29	41	36	54	30	38	45	46

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA													
MISSOURI RIVER	NO		22	26	26	27	31	4					5
	MIN							1					1
	MEAN		3	3	2	1	6	4					4
	MAX		8	19	21	10	18	9					1[illegible]
DISSOLVED ALPHA													
MISSOURI RIVER	NO		22	26	26	27	31	5					6
	MIN												
	MEAN		6	3	4	2	3	3					2
	MAX		46	8	12	8	8	5					6
TOTAL ALPHA													
MISSOURI RIVER	NO		22	26	26	27	31	4					5
	MIN							1					1
	MEAN		9	6	5	4	8	7					7
	MAX		48	21	24	11	19	14					11
SUSPENDED BETA													
MISSOURI RIVER	NO		22	26	26	27	31	28	27	31	28	28	33
	MIN							6					
	MEAN		22	13	7	13	35	52	68	64	198	87	52
	MAX		78	76	27	124	176	164	674	205	608	644	499
DISSOLVED BETA													
MISSOURI RIVER	NO		22	26	26	27	31	29	27	31	28	28	33
	MIN			3		1			8	15	19	17	
	MEAN		27	22	23	16	16	27	32	38	81	51	50
	MAX		50	54	79	47	44	57	118	95	272	142	491
TOTAL BETA													
MISSOURI RIVER	NO		22	26	26	27	31	28	27	31	28	28	33
	MIN		14	10	1	1		7	26	18	20	18	11
	MEAN		49	35	30	28	51	80	100	102	279	138	102
	MAX		119	107	80	131	198	202	697	297	666	786	577

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA SW LOWER MISS	NO		4	6	8	7	13	1			3	14	14
	MIN		4	1		1		7			5		
	MEAN		33	4	5	4	6	7			16	5	4
	MAX		89	6	15	8	15	7			22	36	23
DISSOLVED ALPHA SW LOWER MISS	NO		4	6	8	7	12	1			3	13	12
	MIN										2		
	MEAN			1			1				9	6	4
	MAX		1	1	1	1	2				21	32	11
TOTAL ALPHA SW LOWER MISS	NO		4	6	8	7	12	1			3	13	12
	MIN		4	2		1		7			8		
	MEAN		33	4	6	5	7	7			25	12	7
	MAX		89	6	16	9	16	7			42	37	31
SUSPENDED BETA SW LOWER MISS	NO		4	6	8	7	14	19	23	28	21	24	33
	MIN		22	8	5	22		6	4		9		
	MEAN		79	25	30	34	49	61	139	64	176	71	40
	MAX		167	48	52	52	122	302	856	396	1001	663	167
DISSOLVED BETA SW LOWER MISS	NO		4	6	8	7	14	19	23	28	21	24	33
	MIN				5			5	4	8	8	24	6
	MEAN		14	13	13	18	22	95	34	58	98	93	51
	MAX		20	51	21	47	97	1314	158	264	285	375	157
TOTAL BETA SW LOWER MISS	NO		4	6	8	7	14	19	23	28	21	24	33
	MIN		40	13	10	25		23	12	31	32	24	17
	MEAN		92	38	42	52	71	155	173	122	274	163	91
	MAX		183	99	62	82	166	1334	896	438	1235	869	324

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA COLORADO RIVER	NO		1	3	8	7	7	3			3	12	10
	MIN		1										
	MEAN		1	1		1					1		
	MAX		1	2	1	1	1				1	1	1
DISSOLVED ALPHA COLORADO RIVER	NO		1	3	8	7	7	3			3	12	9
	MIN		12	2	2	2	1	3					
	MEAN		12	4	6	7	5	7			17	6	4
	MAX		12	6	11	11	11	13			29	15	10
TOTAL ALPHA COLORADO RIVER	NO		1	3	8	7	7	3			3	12	9
	MIN		13	4	2	3	1	3					
	MEAN		13	5	6	8	5	7			17	6	4
	MAX		13	6	11	11	11	13			30	15	11
SUSPENDED BETA COLORADO RIVER	NO		1	3	8	7	7	10	9	13	12	14	17
	MIN		14										
	MEAN		14	11	2	5	4	8	31	10	4	2	12
	MAX		14	21	6	12	9	19	90	37	10	8	160
DISSOLVED BETA COLORADO RIVER	NO		1	3	8	7	7	10	9	13	12	14	17
	MIN		22		2			6	13	15	5	9	8
	MEAN		22	9	18	16	17	39	25	26	62	43	23
	MAX		22	16	34	28	37	148	38	37	245	168	56
TOTAL BETA COLORADO RIVER	NO		1	3	8	7	7	10	9	13	12	14	17
	MIN		36	11	5			6	13	18	5	9	8
	MEAN		36	20	20	21	21	47	55	36	65	46	35
	MAX		36	28	40	39	43	167	104	67	249	174	212

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA WESTERN GULF	NO		3	5	4	4	5	3			1	4	2
	MIN				1						1	1	2
	MEAN		3	2	2	1	4	6			1	3	10
	MAX		7	11	4	1	12	16			1	6	18
DISSOLVED ALPHA WESTERN GULF	NO		3	5	4	4	5	3			1	4	3
	MIN		1								20		
	MEAN		5	2	2	3	1	1			20	3	
	MAX		10	8	3	6	3	2			20	4	1
TOTAL ALPHA WESTERN GULF	NO		3	5	4	4	5	3			1	4	2
	MIN		2		2	1	2	1			21	1	2
	MEAN		7	5	3	3	5	7			21	5	11
	MAX		10	14	4	6	13	18			21	9	19
SUSPENDED BETA WESTERN GULF	NO		3	5	4	4	5	9	8	9	9	8	9
	MIN		37	2	1		1		3				18
	MEAN		53	11	22	3	13	17	40	24	106	60	176
	MAX		75	32	76	5	34	58	109	49	338	208	589
DISSOLVED BETA WESTERN GULF	NO		3	5	4	4	5	9	8	9	9	8	9
	MIN		14		4		1		11	17	39	43	24
	MEAN		40	12	13	6	25	16	30	83	120	61	61
	MAX		61	33	28	12	54	36	56	520	229	96	125
TOTAL BETA WESTERN GULF	NO		3	5	4	4	5	9	8	9	9	8	9
	MIN		51	2	8	4	5	1	16	18	46	45	80
	MEAN		93	23	35	9	38	33	70	108	226	122	236
	MAX		136	47	80	13	62	75	149	566	532	304	613

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA													
PACIFIC NORTHWEST	NO		7	14	12	10	12	2				6	8
	MIN												
	MEAN					1	1						1
	MAX			1		11	2					1	4
DISSOLVED ALPHA													
PACIFIC NORTHWEST	NO		7	14	12	10	12	2				6	8
	MIN												
	MEAN		1	1	1	2	1	1				2	1
	MAX		2	2	3	14	3	1				4	3
TOTAL ALPHA													
PACIFIC NORTHWEST	NO		7	14	12	10	12	2				6	8
	MIN												
	MEAN		1	1	1	3	1	1				2	2
	MAX		2	2	3	14	3	1				5	4
SUSPENDED BETA													
PACIFIC NORTHWEST	NO		7	14	12	10	12	15	11	17	13	20	24
	MIN		10			12		5	5				
	MEAN		31	50	46	65	60	63	63	26	20	25	43
	MAX		50	165	99	173	233	241	225	44	72	154	315
DISSOLVED BETA													
PACIFIC NORTHWEST	NO		7	14	12	10	12	15	11	17	13	20	24
	MIN		243	3	6	1	8	3	1	11	17	17	6
	MEAN		537	686	522	488	253	230	164	128	219	271	284
	MAX		831	2698	1645	1330	913	890	508	435	748	1696	1169
TOTAL BETA													
PACIFIC NORTHWEST	NO		7	14	12	10	12	15	11	17	13	20	24
	MIN		293	3	6	19	8	14	6	11	23	22	9
	MEAN		568	736	567	552	314	293	227	154	239	296	327
	MAX		876	2863	1743	1443	1007	989	568	479	785	1766	1261

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA BUFFALO N Y	NO			1	1	1	1	1					
	MIN												
	MEAN												
	MAX												
DISSOLVED ALPHA BUFFALO N Y	NO			1	1	1	1	1					
	MIN			1									
	MEAN			1									
	MAX			1									
TOTAL ALPHA BUFFALO N Y	NO			1	1	1	1	1					
	MIN			1									
	MEAN			1									
	MAX			1									
SUSPENDED BETA BUFFALO N Y	NO			1	1	1	1	1	1	1	1	1	2
	MIN			3	5				4	12			
	MEAN			3	5				4	12			2
	MAX			3	5				4	12			4
DISSOLVED BETA BUFFALO N Y	NO			1	1	1	1	1	1	1	1	1	2
	MIN			6	1			7	3	7	15	10	11
	MEAN			6	1			7	3	7	15	10	12
	MAX			6	1			7	3	7	15	10	12
TOTAL BETA BUFFALO N Y	NO			1	1	1	1	1	1	1	1	1	2
	MIN			9	6			7	7	19	15	10	12
	MEAN			9	6			7	7	19	15	10	14
	MAX			9	6			7	7	19	15	10	15

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA													
POUGHKEEPSIE N Y	NO												1
	MIN												
	MEAN												
	MAX												
DISSOLVED ALPHA													
POUGHKFEPSIF N Y	NO												1
	MIN												
	MEAN												
	MAX												
TOTAL ALPHA													
POUGHKEEPSIE N Y	NO												1
	MIN												
	MEAN												
	MAX												
SUSPENDED BETA													
POUGHKEEPSIE N Y	NO									4	4	4	5
	MIN									2			
	MEAN									6	3	2	3
	MAX									9	4	5	6
DISSOLVED BETA													
POUGHKEEPSIE N Y	NO									4	4	4	5
	MIN									2	4	9	13
	MEAN									18	27	21	16
	MAX									25	87	34	19
TOTAL BETA													
POUGHKEEPSIE N Y	NO									4	4	4	5
	MIN									6	4	9	13
	MEAN									24	29	24	19
	MAX									33	91	37	25

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA LOWELL MASS	NO				3	4	4						
	MIN												
	MEAN						1						
	MAX						3						
DISSOLVED ALPHA LOWELL MASS	NO				3	4	4						
	MIN												
	MEAN				2								
	MAX				6								
TOTAL ALPHA LOWELL MASS	NO				3	4	4						
	MIN												
	MEAN				2		1						
	MAX				6		3						
SUSPENDED BETA LOWELL MASS	NO				3	4	4	3	3	2	4	1	
	MIN				4		2		6	35	5	4	
	MEAN				8	3	5	12	23	52	11	4	
	MAX				10	6	10	25	40	68	16	4	
DISSOLVED BETA LOWELL MASS	NO				3	4	4	3	3	2	4	1	
	MIN				5			12	5	13	21	14	
	MEAN				8	4	12	15	10	17	22	14	
	MAX				10	13	20	17	13	20	24	14	
TOTAL BETA LOWELL MASS	NO				3	4	4	3	3	2	4	1	
	MIN				13	2	2	12	17	55	26	18	
	MEAN				16	7	17	27	33	68	33	18	
	MAX				19	14	30	40	45	81	40	18	

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA EASTON PA	NO												
	MIN												
	MEAN												
	MAX												
DISSOLVED ALPHA EASTON PA	NO												
	MIN												
	MEAN												
	MAX												
TOTAL ALPHA EASTON PA	NC												
	MIN												
	MEAN												
	MAX												
SUSPENDED BETA EASTON PA	NO							2	3	1	1		
	MIN							2	2	3	6		
	MEAN							4	9	3	6		
	MAX							5	13	3	6		
DISSOLVED BETA EASTON PA	NO							2	3	1	1		
	MIN							5	9	16	9		
	MEAN							8	13	16	9		
	MAX							11	18	16	9		
TOTAL BETA EASTON PA	NO							2	3	1	1		
	MIN							7	11	19	15		
	MEAN							12	21	19	15		
	MAX							16	31	19	15		

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA													
PHILADELPHIA PA	NO		4	4	4	4	5						1
	MIN												
	MEAN			1	1		1						
	MAX		1	1	3		3						
DISSOLVED ALPHA													
PHILADELPHIA PA	NO		4	4	4	4	5						1
	MIN												
	MEAN					2							
	MAX		1		1	7	1						
TOTAL ALPHA													
PHILADELPHIA PA	NO		4	4	4	4	5						1
	MIN												
	MEAN		1	1	2	2	1						
	MAX		2	1	3	7	4						
SUSPENDED BETA													
PHILADELPHIA PA	NO		4	4	4	4	5	4	4	5	3	4	5
	MIN		1	5			1		1		8	3	
	MEAN		14	13	14	3	16	12	24	7	16	14	17
	MAX		36	32	31	8	38	28	89	23	32	39	65
DISSOLVED BETA													
PHILADELPHIA PA	NO		4	4	4	4	5	4	4	5	3	4	5
	MIN		10	3		2		2	6		1	18	4
	MEAN		18	14	3	8	15	14	13	4	22	24	41
	MAX		31	36	7	14	30	32	20	8	36	26	112
TOTAL BETA													
PHILADELPHIA PA	NO		4	4	4	4	5	4	4	5	3	4	5
	MIN		11	8		10	4	2	7	7	33	25	9
	MEAN		32	27	17	11	32	25	37	11	38	37	58
	MAX		67	68	38	14	62	60	97	23	44	65	177

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA WILLIAMSPORT MD	NO		3	3		3	5	1					1
	MIN							1					
	MEAN						1	1					
	MAX		1	1		1	1	1					
DISSOLVED ALPHA WILLIAMSPORT MD	NO		3	3		3	5	1					1
	MIN												
	MEAN			1			1						
	MAX		1	2		1	2						
TOTAL ALPHA WILLIAMSPORT MD	NO		3	3		3	5	1					1
	MIN							1					
	MEAN		1	1		1	1	1					
	MAX		2	3		2	3	1					
SUSPENDED BETA WILLIAMSPORT MD	NO		3	3		3	5	4	4	5	4	4	4
	MIN												
	MEAN		9	2		1	8	20	1	4	4	4	1
	MAX		16	5		2	16	74	5	10	15	8	3
DISSOLVED BETA WILLIAMSPORT MD	NO		3	3		3	5	4	4	5	4	4	4
	MIN			10				4	2	6	12	20	11
	MEAN		5	33		1	5	44	12	29	26	48	31
	MAX		10	77		4	18	81	16	80	37	73	82
TOTAL BETA WILLIAMSPORT MD	NO		3	3		3	5	4	4	5	4	4	4
	MIN			13				4	2	8	13	20	11
	MEAN		13	35		2	13	65	13	33	30	52	32
	MAX		26	77		6	28	88	17	90	52	81	82

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA GREAT FALLS MD	NO		4	4	4	4	5	1					1
	MIN							5					
	MEAN			1	4		1	5					
	MAX		1	2	13	1	3	5					
DISSOLVED ALPHA GREAT FALLS MD	NO		4	4	4	4	5	1					1
	MIN												
	MEAN		3		1	2							
	MAX		12		2	7							
TOTAL ALPHA GREAT FALLS MD	NO		4	4	4	4	5	1					1
	MIN							5					
	MEAN		3	1	4	3	1	5					
	MAX		12	2	15	7	3	5					
SUSPENDED BETA GREAT FALLS MD	NO		4	4	4	4	5	4	4	5	4	4	5
	MIN		4		2			10	5	1			
	MEAN		9	12	27	4	32	26	8	14	31	5	26
	MAX		16	32	91	8	116	59	12	49	77	10	116
DISSOLVED BETA GREAT FALLS MD	NO		4	4	4	4	5	4	4	5	4	4	5
	MIN		3		2	6			8	16	14	1	
	MEAN		24	4	7	12	8	9	33	36	28	23	18
	MAX		65	10	15	23	18	14	86	92	40	34	44
TOTAL BETA GREAT FALLS MD	NO		4	4	4	4	5	4	4	5	4	4	5
	MIN		8	4	5	6		10	20	17	14	1	6
	MEAN		33	16	33	15	40	34	41	51	60	28	44
	MAX		81	38	106	24	134	73	94	94	117	40	160

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA													
NORTH AUGUSTA S C	NO				1	4	5						1
	MIN				2								
	MEAN				2								
	MAX				2	1	1						
DISSOLVED ALPHA													
NORTH AUGUSTA S C	NO				1	4	5						1
	MIN				1								
	MEAN				1	1							
	MAX				1	2	1						
TOTAL ALPHA													
NORTH AUGUSTA S C	NO				1	4	5						1
	MIN				3								
	MEAN				3	1	1						
	MAX				3	3	2						
SUSPENDED BETA													
NORTH AUGUSTA S C	NO				1	4	5	4	4	5	3	4	5
	MIN				17			8	7	8	15		
	MEAN				17	5	16	18	9	22	40	8	2
	MAX				17	8	39	35	12	59	76	13	4
DISSOLVED BETA													
NORTH AUGUSTA S C	NO				1	4	5	4	4	5	3	4	5
	MIN				11			4	7	6	13	6	1
	MEAN				11	7	14	9	15	13	21	13	6
	MAX				11	14	39	15	22	19	29	22	14
TOTAL BETA													
NORTH AUGUSTA S C	NO				1	4	5	4	4	5	3	4	5
	MIN				28	5		16	19	18	36	12	1
	MEAN				28	12	30	27	24	35	61	21	8
	MAX				28	22	78	50	31	78	89	33	18

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA PORT WENTWORTH GA	NO					1	5	1					1
	MIN					1							
	MEAN					1							
	MAX					1							
DISSOLVED ALPHA PORT WENTWORTH GA	NO					1	5	1					1
	MIN												
	MEAN												
	MAX						1						
TOTAL ALPHA PORT WENTWORTH GA	NO					1	5	1					1
	MIN					1							
	MEAN					1							
	MAX					1	1						
SUSPENDED BETA PORT WENTWORTH GA	NO					1	5	4	5	4		1	4
	MIN					3	6	5	9			3	2
	MEAN					3	25	11	20	12		3	5
	MAX					3	84	14	37	23		3	10
DISSOLVED BETA PORT WENTWORTH GA	NO					1	5	4	5	4		1	4
	MIN					21	2	20	18	13		13	10
	MEAN					21	13	22	24	17		13	70
	MAX					21	37	26	31	20		13	240
TOTAL BETA PORT WENTWORTH GA	NO					1	5	4	5	4		1	4
	MIN					24	8	25	30	20		16	13
	MEAN					24	38	32	44	29		16	75
	MAX					24	121	40	68	38		16	242

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA													
CHATTANOOGA TENN	NO						3	2					1
	MIN						1	1					
	MEAN						1	1					
	MAX						1	1					
DISSOLVED ALPHA													
CHATTANOOGA TENN	NO						3	2					1
	MIN							1					
	MEAN							1					
	MAX						1	1					
TOTAL ALPHA													
CHATTANOOGA TENN	NO						3	2					1
	MIN						1	2					
	MEAN						1	2					
	MAX						2	2					
SUSPENDED BETA													
CHATTANOOGA TENN	NO						3	5	4	3	5	4	4
	MIN						2	14	6				
	MEAN						18	33	32		24	14	11
	MAX						28	54	80		89	52	24
DISSOLVED BETA													
CHATTANOOGA TENN	NO						3	5	4	4	5	4	4
	MIN							6	15		31	46	2
	MEAN						4	28	23	21	99	77	35
	MAX						9	44	32	52	258	157	64
TOTAL BETA													
CHATTANOOGA TENN	NO						3	5	4	3	5	4	4
	MIN						6	20	38		37	46	4
	MEAN						22	61	55	23	123	90	46
	MAX						37	94	95	52	347	160	88

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RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA EAST LIVERPOOL OH	NO		3	3	4	4	5						1
	MIN												
	MEAN												
	MAX			1			1						
DISSOLVED ALPHA EAST LIVERPOOL OH	NO		3	3	4	4	5						1
	MIN												3
	MEAN		1										3
	MAX		1			1							3
TOTAL ALPHA EAST LIVERPOOL OH	NO		3	3	4	4	5						1
	MIN												3
	MEAN		1										3
	MAX		1	1		1	1						3
SUSPENDED BETA EAST LIVERPOOL OH	NO		3	3	4	4	5	3	1	2	3	3	2
	MIN							13	16	1	12	8	2
	MEAN			2	6	3	2	27	16	2	62	27	6
	MAX			6	9	6	7	52	16	2	101	57	9
DISSOLVED BETA EAST LIVERPOOL OH	NO		3	3	4	4	5	3	1	2	3	3	2
	MIN		4		1	3		2	9	27	36	31	25
	MEAN		10	6	11	10	4	11	9	28	109	36	32
	MAX		17	9	22	26	14	18	9	29	200	43	38
TOTAL BETA EAST LIVERPOOL OH	NO		3	3	4	4	5	3	1	2	3	3	2
	MIN		4		1	3		15	25	29	48	39	27
	MEAN		10	8	16	12	6	38	25	30	171	63	37
	MAX		17	15	31	28	17	65	25	30	273	100	47

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA HUNTINGTON W VA	NO		4	5	4	4	5	1					1
	MIN							1					
	MEAN		2	6	1	1	2	1					
	MAX		6	20	1	2	5	1					
DISSOLVED ALPHA HUNTINGTON W VA	NO		4	5	4	4	5	1					1
	MIN							1					1
	MEAN		1	1		1		1					1
	MAX		4	3		5		1					1
TOTAL ALPHA HUNTINGTON W VA	NO		4	5	4	4	5	1					1
	MIN							2					1
	MEAN		3	7	1	2	2	2					1
	MAX		7	21	1	7	5	2					1
SUSPENDED BETA HUNTINGTON W VA	NO		4	5	4	4	5	4	4	5	4	4	5
	MIN				1		6	6	11		40	1	
	MEAN		6	39	17	6	25	15	31	7	50	27	4
	MAX		16	137	37	18	38	32	58	26	62	44	10
DISSOLVED BETA HUNTINGTON W VA	NO		4	5	4	4	5	4	4	5	4	4	5
	MIN								9		12	23	11
	MEAN		10	11	5	8	8	6	18	16	43	29	19
	MAX		16	22	8	16	18	14	27	28	75	34	27
TOTAL BETA HUNTINGTON W VA	NO		4	5	4	4	5	4	4	5	4	4	5
	MIN		7	4	4		6	8	38	3	56	31	16
	MEAN		16	49	22	14	33	21	49	23	93	57	23
	MAX		26	159	45	30	47	46	68	39	115	74	28

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA CINCINNATI OHIO	NO		4	4	5	4	4	1					
	MIN			2			1	2					
	MEAN		1	3	2	1	2	2					
	MAX		4	5	5	3	4	2					
DISSOLVED ALPHA CINCINNATI OHIO	NO		4	4	5	4	4	1					
	MIN							2					
	MEAN		1			1		2					
	MAX		3	1	1	1	1	2					
TOTAL ALPHA CINCINNATI OHIO	NO		4	4	5	4	4	1					
	MIN			2			1	4					
	MEAN		3	4	3	2	2	4					
	MAX		7	6	6	3	5	4					
SUSPENDED BETA CINCINNATI OHIO	NO		4	4	5	4	4	4	4	4	5	4	4
	MIN		2	1		1	4	16	17		7		1
	MEAN		17	21	19	13	32	80	26	19	77	47	6
	MAX		45	69	63	31	58	232	42	38	212	84	13
DISSOLVED BETA CINCINNATI OHIO	NO		4	4	5	4	4	5	4	4	5	4	4
	MIN		16		2			11	9	1	29	37	
	MEAN		44	5	15	6	6	16	15	22	61	50	20
	MAX		95	11	45	18	15	23	20	33	128	62	33
TOTAL BETA CINCINNATI OHIO	NO		4	4	5	4	4	4	4	4	5	4	4
	MIN		30	4	7	1	4	31	27	1	38	42	1
	MEAN		61	26	34	19	38	97	42	41	138	97	26
	MAX		104	80	108	49	70	246	61	60	340	141	39

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA EVANSVILLE IND	NO					2	3	1					2
	MIN							2					
	MEAN					2	2	2					1
	MAX					3	4	2					1
DISSOLVED ALPHA EVANSVILLE IND	NO					2	3	1					2
	MIN							5					
	MEAN							5					1
	MAX							5					1
TOTAL ALPHA EVANSVILLE IND	NO					2	3	1					2
	MIN							7					
	MEAN					2	2	7					1
	MAX					3	4	7					2
SUSPENDED BETA EVANSVILLE IND	NO					2	3	3		4	2	1	5
	MIN					5	6	9		2	44	28	
	MEAN					6	16	31		12	58	28	15
	MAX					7	35	60		24	72	28	52
DISSOLVED BETA EVANSVILLE IND	NO					2	3	3		4	2	1	5
	MIN					1		24		22	50	22	16
	MEAN					3	14	34		36	51	22	33
	MAX					5	29	51		65	51	22	67
TOTAL BETA EVANSVILLE IND	NO					2	3	3		4	2	1	5
	MIN					6	6	47		29	94	50	24
	MEAN					9	30	65		48	109	50	47
	MAX					12	64	87		76	123	50	119

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA CAIRO ILL	NO							1			1	3	2
	MIN							1			1		1
	MEAN							1			1	1	1
	MAX							1			1	3	1
DISSOLVED ALPHA CAIRO ILL	NO							1			1	3	2
	MIN							1			1		
	MEAN							1			1		1
	MAX							1			1	1	2
TOTAL ALPHA CAIRO ILL	NO							1			1	3	2
	MIN							2			2		1
	MEAN							2			2	2	2
	MAX							2			2	4	3
SUSPENDED BETA CAIRO ILL	NO							4	4	5	4	4	4
	MIN								14		15	7	
	MEAN							27	22	28	34	13	6
	MAX							51	36	72	81	22	16
DISSOLVED BETA CAIRO ILL	NO							4	4	5	4	4	4
	MIN							7	19		45	24	12
	MEAN							14	31	19	61	57	44
	MAX							17	42	32	87	83	111
TOTAL BETA CAIRO ILL	NO							4	4	5	4	4	4
	MIN							16	33		60	34	16
	MEAN							42	53	47	94	70	50
	MAX							68	64	96	168	97	127

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA MINNEAPOLIS MINN	NO		4	4	4	4	4	2					1
	MIN												
	MEAN												
	MAX		1										
DISSOLVED ALPHA MINNEAPOLIS MINN	NO		4	4	4	4	4	2					1
	MIN							1					1
	MEAN		1	1	1	1	1	2					1
	MAX		2	3	3	2	1	2					1
TOTAL ALPHA MINNEAPOLIS MINN	NO		4	4	4	4	4	2					1
	MIN							1					1
	MEAN		1	1	1	1	1	2					1
	MAX		3	3	3	2	1	2					1
SUSPENDED BETA MINNEAPOLIS MINN	NO		4	4	4	4	4	5	4	4	5	4	5
	MIN		8	2				2		3	1		
	MEAN		14	22	19	2	4	11	18	12	16	7	2
	MAX		22	81	43	7	10	26	61	29	45	21	6
DISSOLVED BETA MINNEAPOLIS MINN	NO		4	4	4	4	4	5	4	4	5	4	5
	MIN			19			2	27	18	12	36	34	22
	MEAN		34	64	20	8	13	35	29	25	96	87	37
	MAX		49	159	38	13	28	46	49	37	258	133	77
TOTAL BETA MINNEAPOLIS MINN	NO		4	4	4	4	4	5	4	4	5	4	5
	MIN		18	21	12	1	4	35	18	20	37	34	22
	MEAN		48	86	38	10	16	45	47	37	112	93	39
	MAX		68	240	51	15	38	59	83	58	270	137	77

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA													
DUBUQUE IOWA	NO			5	4	4	4	1					
	MIN							1					
	MEAN							1					
	MAX				1			1					
DISSOLVED ALPHA													
DUBUQUE IOWA	NO			5	4	4	4	1					
	MIN							1					
	MEAN			1	1	1		1					
	MAX			3	1	2	1	1					
TOTAL ALPHA													
DUBUQUE IOWA	NO			5	4	4	4	1					
	MIN				1			2					
	MEAN			1	1	1		2					
	MAX			3	1	2	1	2					
SUSPENDED BETA													
DUBUQUE IOWA	NO			5	4	4	4	4	3	5	4	3	3
	MIN						2	8	4	1	7		
	MEAN			1	4		5	12	10	7	13	6	2
	MAX			3	8	1	7	18	15	20	26	15	5
DISSOLVED BETA													
DUBUQUE IOWA	NO			5	4	4	4	4	3	5	4	3	3
	MIN				8	1	3	14	23	10	33	27	21
	MEAN			14	17	7	8	21	34	28	42	37	63
	MAX			24	28	22	15	34	49	51	49	48	95
TOTAL BETA													
DUBUQUE IOWA	NO			5	4	4	4	4	3	5	4	3	3
	MIN				13	1	5	25	33	13	42	39	21
	MEAN			15	20	8	13	33	43	35	55	43	65
	MAX			24	29	22	21	45	53	52	74	48	97

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA BURLINGTON IOWA	NO		3	5	3	4	5	1					1
	MIN												1
	MEAN		1	1			1						1
	MAX		1	3			4						1
DISSOLVED ALPHA BURLINGTON IOWA	NO		3	5	3	4	5	1					1
	MIN			1									4
	MEAN		1	3		1	1						4
	MAX		2	8		1	2						4
TOTAL ALPHA BURLINGTON IOWA	NO		3	5	3	4	5	1					1
	MIN		1	1									5
	MEAN		2	4		1	2						5
	MAX		2	11		1	6						5
SUSPENDED BETA BURLINGTON IOWA	NO		3	5	3	4	5	4	4	3	3	4	4
	MIN							2	8	12	11		4
	MEAN		4	3	[illegible]	2	13	15	12	41	38	9	9
	MAX		9	8	9	6	19	28	22	57	87	24	14
DISSOLVED BETA BURLINGTON IOWA	NO		3	5	3	4	5	4	4	3	3	4	4
	MIN		1				1	16	18		53	43	31
	MEAN		12	12	7	7	15	19	26	77	71	51	39
	MAX		33	23	10	15	44	23	38	200	87	62	58
TOTAL BETA BURLINGTON IOWA	NO		3	5	3	4	5	4	4	3	3	4	4
	MIN		1		9		9	25	26	42	64	44	35
	MEAN		16	15	11	9	28	34	38	118	109	60	48
	MAX		37	30	15	21	63	47	47	254	160	71	65

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPFNDED ALPHA EAST ST LOUIS ILL	NO				4	4	5	1					1
	MIN							1					13
	MEAN						3	1					13
	MAX				1		8	1					13
DISSOLVFD ALPHA EAST ST LOUIS ILL	NO				4	4	5	1					1
	MIN												3
	MEAN				1	1	1						3
	MAX				3	3	1						3
TOTAL ALPHA EAST ST LOUIS ILL	NO				4	4	5	1					1
	MIN							1					16
	MEAN				1	1	3	1					16
	MAX				3	3	8	1					16
SUSPENDED RFTA EAST ST LOUIS ILL	NO				4	4	5	4	4	5	4	4	5
	MIN				2		8	15	2	15	54	14	
	MEAN				5	11	46	21	20	57	124	26	40
	MAX				8	36	88	26	44	193	300	53	99
DISSOLVFD RFTA EAST ST LOUIS ILL	NO				4	4	5	4	4	5	4	4	5
	MIN					7		8	21	17	39	21	27
	MEAN				14	12	23	16	37	29	84	49	42
	MAX				37	22	48	23	60	39	145	67	61
TOTA'. BETA EAST ST LOUIS ILL	NO				4	4	5	4	4	5	4	4	5
	MIN				8	10	15	28	43	47	93	39	40
	MEAN				19	22	69	37	57	86	208	74	81
	MAX				39	58	136	42	74	218	445	97	149

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA													
CAPE GIRARDEAU MO	NO				4	4	5	1					1
	MIN					2	6						4
	MEAN				2	3	8						4
	MAX				4	4	10						4
DISSOLVED ALPHA													
CAPE GIRARDEAU MO	NO				4	4	5	1					1
	MIN												1
	MEAN				2	3	1						1
	MAX				5	8	5						1
TOTAL ALPHA													
CAPE GIRARDEAU MO	NO				4	4	5	1					1
	MIN					2	7						5
	MEAN				4	6	10						5
	MAX				9	12	15						5
SUSPENDED BETA													
CAPE GIRARDEAU MO	NO				4	4	5	3	4	5	4	4	5
	MIN				9	10		23	19	74	80	47	12
	MEAN				22	21	38	30	29	137	338	143	49
	MAX				35	37	81	43	38	264	884	303	139
DISSOLVED BETA													
CAPE GIRARDEAU MO	NO				4	4	5	3	4	5	4	4	5
	MIN				7			19	17	40	51	24	31
	MEAN				16	20		30	26	99	74	56	43
	MAX				27	35		42	48	259	110	90	52
TOTAL BETA													
CAPE GIRARDEAU MO	NO				4	4	5	3	4	5	4	4	5
	MIN				16	10		44	36	126	146	102	50
	MEAN				38	42	38	60	55	236	412	199	91
	MAX				58	68	81	85	76	523	994	393	187

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA DULUTH MINN	NO		4	4	4	4	5	1					
	MIN												
	MEAN												
	MAX					1							
DISSOLVED ALPHA DULUTH MINN	NO		4	4	4	4	5	1					1
	MIN												
	MEAN					1							
	MAX			1		2	1						
TOTAL ALPHA DULUTH MINN	NO		4	4	4	4	5	1					
	MIN												
	MEAN					1							
	MAX			1		3	1						
SUSPENDED BETA DULUTH MINN	NO		4	4	4	4	5	4	4	5	3	4	5
	MIN		1										
	MEAN		6	3	1		6	6	4	2	2	1	5
	MAX		14	7	5	1	16	19	12	5	5	2	17
DISSOLVED BETA DULUTH MINN	NO		4	4	4	4	5	4	4	5	3	4	5
	MIN		2	3							3		2
	MEAN		8	10	6	9	8	12	26	10	10	15	11
	MAX		19	22	10	28	25	28	54	23	20	45	24
TOTAL BETA DULUTH MINN	NO		4	4	4	4	5	4	4	5	3	4	5
	MIN		5	3				1	4		3	2	2
	MEAN		14	13	8	9	14	18	30	11	12	16	17
	MAX		25	29	14	29	41	36	54	28	20	45	26

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA DETROIT MICH	NO		4	4	5	2	4	2					1
	MIN												
	MEAN												
	MAX		1										
DISSOLVED ALPHA DETROIT MICH	NO		4	4	5	2	4	2					1
	MIN												
	MEAN							1					
	MAX				1			1					
TOTAL ALPHA DETROIT MICH	NO		4	4	5	2	4	2					1
	MIN												
	MEAN							1					
	MAX		1		1			1					
SUSPENDED BETA DETROIT MICH	NO		4	4	5	2	4	4	5	4	1	3	5
	MIN									1	4		
	MEAN		5	4	4	1	4	3	3	4	4	1	5
	MAX		8	10	13	1	9	9	6	7	4	2	10
DISSOLVED BETA DETROIT MICH	NO		4	4	5	2	4	4	5	4	1	3	5
	MIN		3					1		5	34	18	5
	MEAN		11	2	8		4	3	7	15	34	29	19
	MAX		22	6	23		14	4	12	27	34	41	36
TOTAL BETA DETROIT MICH	NO		4	4	5	2	4	4	5	4	1	3	5
	MIN		3				1	1	6	6	38	18	5
	MEAN		15	6	12	1	7	5	10	19	38	29	24
	MAX		30	13	36	1	23	13	18	30	38	43	46

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA													
WILLISTON N D	NO		4	4	4	4	5	1					1
	MIN		1					1					1
	MEAN		2	1		2	1	1					1
	MAX		4	2		7	5	1					1
DISSOLVED ALPHA													
WILLISTON N D	NO		4	4	4	4	5	1					1
	MIN		1	2									
	MEAN		9	5	5	3	3						
	MAX		26	8	12	8	5						
TOTAL ALPHA													
WILLISTON N D	NO		4	4	4	4	5	1					1
	MIN		2	4				1					1
	MEAN		11	6	5	4	4	1					1
	MAX		30	8	12	8	7	1					1
SUSPENDED BETA													
WILLISTON N D	NO		4	4	4	4	5	4	3	3	4	4	5
	MIN		23	1				19	26	94	131	14	6
	MFAN		30	7	2	5	4	64	59	140	274	146	16
	MAX		41	17	6	15	12	120	117	205	426	312	42
DISSOLVED BETA													
WILLISTON N D	NO		4	4	4	4	5	4	3	3	4	4	5
	MIN		22	9	7	4		33	33	15	35	30	15
	MEAN		32	23	35	8	10	41	66	23	81	56	123
	MAX		50	40	79	11	19	57	118	29	124	99	491
TOTAL BETA													
WILLISTON N D	NO		4	4	4	4	5	4	3	3	4	4	5
	MIN		49	17	7	6		52	59	123	166	72	44
	MFAN		61	30	37	12	13	106	124	163	355	202	139
	MAX		73	57	80	26	24	177	163	220	530	361	497

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA BISMARCK N D	NO		4	2	4	3	3	1					1
	MIN							5					2
	MEAN		1	1				5					2
	MAX		2	1	1			5					2
DISSOLVED ALPHA BISMARCK N D	NO		4	2	4	3	3	1					1
	MIN					1		3					3
	MEAN		14	2	2	2	1	3					3
	MAX		46	3	4	3	2	3					3
TOTAL ALPHA BISMARCK N D	NO		4	2	4	3	3	1					1
	MIN					1		8					5
	MEAN		14	2	2	2	1	8					5
	MAX		48	4	4	3	2	8					5
SUSPENDED BETA BISMARCK N D	NO		4	2	4	3	3	5	4	4	5	4	5
	MIN			17				6	3	5			
	MEAN		9	19	4	1	3	21	7	19	33	2	5
	MAX		29	21	8	3	8	76	11	45	100	4	10
DISSOLVED BETA BISMARCK N D	NO		4	2	4	3	3	5	4	4	5	4	5
	MIN		16	18	9	2	16		23	24	19	17	11
	MEAN		26	29	20	18	25	14	28	30	45	29	18
	MAX		42	40	28	29	34	26	40	37	130	43	28
TOTAL BETA BISMARCK N D	NO		4	2	4	3	3	5	4	4	5	4	5
	MIN		22	35	14	3	16	7	28	29	20	18	11
	MEAN		35	48	23	20	28	35	35	49	77	30	23
	MAX		48	61	31	32	35	76	48	76	230	45	37

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA													
YANKTON S D	NO		4	5	4	4	5	1					1
	MIN							1					1
	MEAN							1					1
	MAX		1				1	1					1
DISSOLVED ALPHA													
YANKTON S D	NO		4	5	4	4	5	1					1
	MIN					2	2	4					6
	MEAN		3	3	2	4	4	4					6
	MAX		5	5	5	4	6	4					6
TOTAL ALPHA													
YANKTON S D	NO		4	5	4	4	5	1					1
	MIN					2	2	5					7
	MEAN		4	3	2	4	4	5					7
	MAX		5	5	5	4	6	5					7
SUSPENDED BETA													
YANKTON S D	NO		4	5	4	4	5	4	4	4	4	4	5
	MIN				1		1	7			5		
	MEAN		6	2	6	3	5	10	12	2	12	2	5
	MAX		21	4	13	6	12	17	46	6	23	5	17
DISSOLVED BETA													
YANKTON S D	NO		4	5	4	4	5	4	4	4	4	4	5
	MIN		17	10		11	6		8	18	44	27	
	MEAN		30	26	13	16	16	20	25	43	61	39	21
	MAX		37	54	23	23	27	39	35	66	93	49	40
TOTAL BETA													
YANKTON S D	NO		4	5	4	4	5	4	4	4	4	4	5
	MIN		17	10	10	11	10	7	26	18	56	27	17
	MEAN		35	28	19	19	22	30	37	45	73	41	26
	MAX		54	58	29	29	39	46	54	67	98	54	42

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA													
OMAHA NEBR	NO		4	3	4	4	5	1					
	MIN		3				1	9					
	MEAN		4	6	2	3	4	9					
	MAX		6	19	3	10	10	9					
DISSOLVED ALPHA													
OMAHA NEBR	NO		4	3	4	4	5	1					
	MIN							5					
	MEAN		3	2	3	2	3	5					
	MAX		5	5	5	5	8	5					
TOTAL ALPHA													
OMAHA NEBR	NO		4	3	4	4	5	1					
	MIN		4		1		4	14					
	MEAN		7	9	4	5	7	14					
	MAX		11	21	7	10	10	14					
SUSPENDED BETA													
OMAHA NEBR	NO		4	3	4	4	5	4	4	5	4	4	4
	MIN		1	2			8	15	16	21	23	18	
	MEAN		24	30	9	32	32	59	40	43	96	27	7
	MAX		78	76	15	124	68	164	69	72	241	38	19
DISSOLVED BETA													
OMAHA NEBR	NO		4	3	4	4	5	4	4	5	4	4	4
	MIN			13		6		24	17	19	37	22	15
	MEAN		23	22	15	22	14	30	25	36	94	33	45
	MAX		41	31	42	47	28	38	36	52	178	41	105
TOTAL BETA													
OMAHA NEBR	NO		4	3	4	4	5	4	4	5	4	4	4
	MIN		14	15	1	9	13	40	33	56	74	48	15
	MEAN		47	52	24	54	46	89	65	78	191	59	53
	MAX		119	107	57	130	93	202	96	99	419	67	105

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RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA ST JOSEPH MO	NO			2	3	4	3						
	MIN			1			6						
	MEAN			2		2	11						
	MAX			3		8	15						
DISSOLVED ALPHA ST JOSEPH MO	NO			2	3	4	3	1					1
	MIN			4	1	2	2	3					
	MEAN			5	4	4	3	3					
	MAX			5	7	7	5	3					
TOTAL ALPHA ST JOSEPH MO	NO			2	3	4	3						
	MIN			5	1	2	11						
	MEAN			7	4	6	14						
	MAX			8	7	11	17						
SUSPENDED BETA ST JOSEPH MO	NO			2	3	4	3	3	4	5	3	4	4
	MIN			6	1		11	59	18	11	161	12	20
	MEAN			8	6	25	106	71	48	42	314	102	100
	MAX			10	12	91	164	90	67	68	505	232	237
DISSOLVED BETA ST JOSEPH MO	NO			2	3	4	3	4	4	5	3	4	4
	MIN			26	22	8		18	22	17	74	23	31
	MEAN			30	27	22	12	26	34	35	84	57	41
	MAX			33	33	40	32	32	55	71	103	72	54
TOTAL BETA ST JOSEPH MO	NO			2	3	4	3	3	4	5	3	4	4
	MIN			36	27	8	11	83	40	28	236	35	55
	MEAN			38	33	48	117	100	82	77	398	158	141
	MAX			39	37	131	174	121	120	129	608	301	291

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA													
KANSAS CITY KANS	NO		4	5	4	4	5						1
	MIN		3	3			7						5
	MEAN		6	5	7	1	12						5
	MAX		8	9	21	2	18						5
DISSOLVED ALPHA													
KANSAS CITY KANS	NO		4	5	4	4	5						1
	MIN		2		3		1						5
	MEAN		3	2	4	1	4						5
	MAX		5	4	6	2	7						5
TOTAL ALPHA													
KANSAS CITY KANS	NO		4	5	4	4	5						1
	MIN		8	6	4		10						10
	MEAN		9	7	11	2	16						10
	MAX		10	9	24	3	19						10
SUSPENDED BETA													
KANSAS CITY KANS	NO		4	5	4	4	5	4	4	5	4	4	5
	MIN		21	5			6	52	29	38	150	58	28
	MEAN		30	11	9	15	63	98	243	76	425	246	144
	MAX		38	15	27	52	136	141	674	126	608	644	499
DISSOLVED BETA													
KANSAS CITY KANS	NO		4	5	4	4	5	4	4	5	4	4	5
	MIN		24	6	15	1		19	23	38	32	41	30
	MEAN		28	16	27	19	21	31	31	44	89	72	50
	MAX		32	25	50	42	44	43	45	50	187	142	78
TOTAL BETA													
KANSAS CITY KANS	NO		4	5	4	4	5	4	4	5	4	4	5
	MIN		49	18	15	1	50	71	53	84	182	99	77
	MEAN		58	27	37	34	84	128	274	120	515	318	193
	MAX		62	36	52	60	136	184	697	164	659	786	577

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA ST LOUIS MO	NO		2	5	3	4	5						1
	MIN		3	1	2	1	2						11
	MEAN		6	4	3	3	10						11
	MAX		8	10	4	5	16						11
DISSOLVED ALPHA ST LOUIS MO	NO		2	5	3	4	5						1
	MIN		2		3								
	MEAN		4	2	5	2	1						
	MAX		6	4	7	3	2						
TOTAL ALPHA ST LOUIS MO	NO		2	5	3	4	5						1
	MIN		9	3	7	2	2						11
	MEAN		10	6	8	4	11						11
	MAX		10	10	9	5	16						11
SUSPENDED BETA ST LOUIS MO	NO		2	5	3	4	5	4	4	5	4	4	5
	MIN		32	7	2	2	7	10	31	17	108	23	31
	MEAN		44	22	16	5	50	55	66	134	302	88	91
	MAX		55	40	25	8	176	121	97	202	576	183	195
DISSOLVED BETA ST LOUIS MO	NO		2	5	3	4	5	4	4	5	4	4	5
	MIN		19	3	9	3		20	12	34	49	31	40
	MEAN		23	17	26	6	14	30	27	50	121	72	49
	MAX		27	35	41	11	32	41	45	95	272	128	80
TOTAL BETA ST LOUIS MO	NO		2	5	3	4	5	4	4	5	4	4	5
	MIN		59	10	11	5	7	30	73	60	179	54	73
	MEAN		67	38	42	10	64	85	93	184	423	159	140
	MAX		74	59	66	18	198	162	115	297	666	257	235

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA COOLIDGE KANS	NO						2				1	3	3
	MIN										21		
	MEAN						1				21	3	1
	MAX						1				21	8	1
DISSOLVED ALPHA COOLIDGE KANS	NO						1				1	3	2
	MIN						2				21	11	8
	MEAN						2				21	22	10
	MAX						2				21	32	11
TOTAL ALPHA COOLIDGE KANS	NO						1				1	3	2
	MIN						2				42	19	8
	MEAN						2				42	26	10
	MAX						2				42	32	12
SUSPENDED BETA COOLIDGE KANS	NO						2	4	4	4	5	4	5
	MIN						9	6	45	33	9	40	5
	MEAN						14	85	323	55	72	71	25
	MAX						18	302	753	103	133	125	50
DISSOLVED BETA COOLIDGE KANS	NO						2	4	4	4	5	4	5
	MIN						56	21	27	22	63	51	36
	MEAN						77	29	76	90	175	217	53
	MAX						97	35	158	172	285	375	76
TOTAL BETA COOLIDGE KANS	NO						2	4	4	4	5	4	5
	MIN						74	33	72	55	131	107	61
	MEAN						90	114	399	144	247	287	78
	MAX						106	337	840	217	418	467	91

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA													
PONCA CITY OKLA	NO										1	3	3
	MIN										22	2	
	MEAN										22	13	11
	MAX										22	36	23
DISSOLVED ALPHA													
PONCA CITY OKLA	NO										1	3	2
	MIN										2		4
	MEAN										2	1	6
	MAX										2	2	8
TOTAL ALPHA													
PONCA CITY OKLA	NO										1	3	2
	MIN										24	2	4
	MEAN										24	14	18
	MAX										24	37	31
SUSPENDED BETA													
PONCA CITY OKLA	NO							4	4	5	4	3	5
	MIN							20	85	27	27	52	89
	MEAN							84	304	173	500	262	135
	MAX							198	856	396	1001	663	167
DISSOLVED BETA													
PONCA CITY OKLA	NO							4	4	5	4	3	5
	MIN							50	35	11	21	124	59
	MEAN							384	56	128	148	161	95
	MAX							1314	84	264	246	206	157
TOTAL BETA													
PONCA CITY OKLA	NO							4	4	5	4	3	5
	MIN							70	151	155	48	196	184
	MEAN							467	360	301	648	423	230
	MAX							1334	896	438	1235	869	324

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA													
WEST MEMPHIS ARK	NO										1	4	2
	MIN										5	1	2
	MEAN										5	5	3
	MAX										5	10	3
DISSOLVED ALPHA													
WEST MEMPHIS ARK	NO										1	4	2
	MIN										3		1
	MEAN										3	1	2
	MAX										3	3	3
TOTAL ALPHA													
WEST MEMPHIS ARK	NO										1	4	2
	MIN										8	1	4
	MEAN										8	6	5
	MAX										8	10	5
SUSPENDED BETA													
WEST MEMPHIS ARK	NO							1	4	5	4	4	5
	MIN							96	4	11	62	24	
	MEAN							96	21	50	136	48	23
	MAX							96	38	106	250	67	65
DISSOLVED BETA													
WEST MEMPHIS ARK	NO							1	4	5	4	4	5
	MIN							5	7	14	42	26	18
	MEAN							5	19	32	54	36	34
	MAX							5	42	43	75	58	53
TOTAL BETA													
WEST MEMPHIS ARK	NO							1	4	5	4	4	5
	MIN							101	15	38	110	50	40
	MEAN							101	40	82	190	84	57
	MAX							101	64	139	292	98	90

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA													
VICKSBURG MISS	NO			3	4	3	5						1
	MIN			1	1	1							6
	MEAN			2	3	4	5						6
	MAX			3	6	8	13						6
DISSOLVED ALPHA													
VICKSBURG MISS	NO			3	4	3	5						1
	MIN												
	MEAN			1			1						
	MAX			1	1	1	1						
TOTAL ALPHA													
VICKSBURG MISS	NO			3	4	3	5						1
	MIN			2	1	1							6
	MEAN			3	4	4	6						6
	MAX			4	7	9	14						6
SUSPENDED BETA													
VICKSBURG MISS	NO			3	4	3	5	3	3	5	2	3	4
	MIN			8	23	22	6	16	32		22	43	13
	MEAN			17	30	30	49	36	44	42	86	71	35
	MAX			30	43	44	108	51	63	84	150	109	72
DISSOLVED BETA													
VICKSBURG MISS	NO			3	4	3	5	3	3	5	2	3	4
	MIN				7	6		7	16	15	10	48	6
	MEAN			7	12	25	18	17	23	41	24	76	30
	MAX			16	15	47	58	30	30	68	38	101	51
TOTAL BETA													
VICKSBURG MISS	NO			3	4	3	5	3	3	5	2	3	4
	MIN			13	37	29	6	23	48	43	32	91	36
	MEAN			24	41	55	67	54	68	83	110	147	64
	MAX			46	50	69	166	72	93	152	188	210	123

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA													
NEW ORLEANS LA	NO						2	1					1
	MIN						2	7					4
	MEAN						8	7					4
	MAX						13	7					4
DISSOLVED ALPHA													
NEW ORLEANS LA	NO						2	1					1
	MIN												
	MEAN												
	MAX												
TOTAL ALPHA													
NEW ORLEANS LA	NO						2	1					1
	MIN						2	7					4
	MEAN						8	7					4
	MAX						13	7					4
SUSPENDED BETA													
NEW ORLEANS LA	NO						2	4	5	5	4	4	4
	MIN						34	19	8	7	53	12	
	MEAN						39	49	28	31	106	45	19
	MAX						44	94	65	51	143	97	28
DISSOLVED BETA													
NEW ORLEANS LA	NO						2	4	5	5	4	4	4
	MIN						7	9	4	8	8	30	37
	MEAN						8	11	13	27	49	42	52
	MAX						8	16	21	58	76	49	69
TOTAL BETA													
NEW ORLEANS LA	NO						2	4	5	5	4	4	4
	MIN						41	28	12	31	99	60	65
	MEAN						47	61	41	58	154	87	71
	MAX						52	103	80	109	211	127	86

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA DENISON TEXAS	NO											4	3
	MIN												
	MEAN												
	MAX												
DISSOLVED ALPHA DENISON TEXAS	NO											3	3
	MIN												
	MEAN											3	2
	MAX											8	4
TOTAL ALPHA DENISON TEXAS	NO											3	3
	MIN												
	MEAN											3	2
	MAX											8	4
SUSPENDED BETA DENISON TEXAS	NO											4	5
	MIN												
	MEAN												3
	MAX												6
DISSOLVED BETA DENISON TEXAS	NO											4	5
	MIN											24	13
	MEAN											68	34
	MAX											86	61
TOTAL BETA DENISON TEXAS	NO											4	5
	MIN											24	17
	MEAN											68	37
	MAX											86	61

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA													
ALEXANDRIA LA	NO		4	3	4	4	4						1
	MIN		4	3		1	3						4
	MEAN		33	5	8	5	9						4
	MAX		89	6	15	8	15						4
DISSOLVED ALPHA													
ALEXANDRIA LA	NO		4	3	4	4	4						1
	MIN												
	MEAN					1	1						
	MAX		1	1	1	1	2						
TOTAL ALPHA													
ALEXANDRIA LA	NO		4	3	4	4	4						1
	MIN		4	3		2	5						4
	MEAN		33	5	8	5	10						4
	MAX		89	6	16	9	16						4
SUSPENDED BETA													
ALEXANDRIA LA	NO		4	3	4	4	5	3	3	4	2	2	5
	MIN		22	10	5	25		16	45	16	37	10	11
	MEAN		79	32	30	37	66	26	109	22	94	22	36
	MAX		167	48	52	52	122	39	225	34	151	33	104
DISSOLVED BETA													
ALEXANDRIA LA	NO		4	3	4	4	5	3	3	4	2	2	5
	MIN				5			11	7	23	38	26	23
	MEAN		14	18	14	13	10	15	17	34	73	32	52
	MAX		20	51	21	42	30	19	26	44	107	38	87
TOTAL BETA													
ALEXANDRIA LA	NO		4	3	4	4	5	3	3	4	2	2	5
	MIN		40	14	10	25		27	64	43	75	36	41
	MEAN		92	51	43	49	76	41	126	56	167	54	88
	MAX		183	99	62	82	150	54	243	67	258	71	160

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA													
LOMA COLO	NO										1	3	1
	MIN										1		1
	MEAN										1		1
	MAX										1		1
DISSOLVED ALPHA													
LOMA COLO	NO										1	3	1
	MIN										21		
	MEAN										21	2	
	MAX										21	7	
TOTAL ALPHA													
LOMA COLO	NO										1	3	1
	MIN										22		1
	MEAN										22	2	1
	MAX										22	7	1
SUSPENDED BETA													
LOMA COLO	NO								3	5	4	3	3
	MIN								20	11	3		4
	MEAN								63	24	6	4	57
	MAX								90	37	10	6	160
DISSOLVED BETA													
LOMA COLO	NO								3	5	4	3	3
	MIN								14	17	31	33	9
	MEAN								23	22	138	83	39
	MAX								38	31	245	168	56
TOTAL BETA													
LOMA COLO	NO								3	5	4	3	3
	MIN								58	32	38	33	15
	MEAN								86	46	144	87	96
	MAX								104	67	249	174	212

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA													
BOULDER CITY NEV	NO											3	3
	MIN												
	MEAN												
	MAX											1	
DISSOLVED ALPHA													
BOULDER CITY NEV	NO											3	3
	MIN												1
	MEAN											7	4
	MAX											11	7
TOTAL ALPHA													
BOULDER CITY NEV	NO											3	3
	MIN												1
	MEAN											7	4
	MAX											11	7
SUSPENDED BETA													
BOULDER CITY NEV	NO										2	4	5
	MIN												
	MEAN										2	2	5
	MAX										3	8	18
DISSOLVED BETA													
BOULDER CITY NEV	NO										2	4	5
	MIN										5	9	8
	MEAN										7	33	20
	MAX										8	56	36
TOTAL BETA													
BOULDER CITY NEV	NO										2	4	5
	MIN										5	9	8
	MEAN										8	35	26
	MAX										11	64	36

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA PARKER DAM CALIF	NO				5	3	4	1			1	3	3
	MIN										1		
	MEAN										1		
	MAX						1				1		1
DISSOLVED ALPHA PARKER DAM CALIF	NO				5	3	4	1			1	3	3
	MIN				2	7	1	13			29	2	
	MEAN				5	8	6	13			29	7	3
	MAX				7	11	11	13			29	15	10
TOTAL ALPHA PARKER DAM CALIF	NO				5	3	4	1			1	3	3
	MIN				2	7	1	13			30	2	
	MEAN				5	8	6	13			30	7	4
	MAX				7	11	11	13			30	15	11
SUSPENDED BETA PARKER DAM CALIF	NO				5	3	4	5	4	4	4	4	4
	MIN												
	MEAN				2	3	4	6	20	1	2	1	
	MAX				5	5	9	9	75	3	5	2	
DISSOLVED BETA PARKER DAM CALIF	NO				5	3	4	5	4	4	4	4	4
	MIN				2	11		25	13	15	9	13	10
	MEAN				17	21	18	39	23	26	29	32	23
	MAX				33	27	37	81	35	37	73	52	36
TOTAL BETA PARKER DAM CALIF	NO				5	3	4	5	4	4	4	4	4
	MIN				5	16		25	13	18	11	13	10
	MEAN				19	24	22	45	42	27	31	32	23
	MAX				34	32	43	90	95	37	73	52	36

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA													
YUMA ARIZ	NO		1	3	3	4	3	2			1	3	3
	MIN		1			1							
	MEAN		1	1		1							
	MAX		1	2	1	1						1	
DISSOLVED ALPHA													
YUMA ARIZ	NO		1	3	3	4	3	2			1	3	2
	MIN		12	2	4	2	3	3				6	5
	MEAN		12	4	8	6	4	5				8	6
	MAX		12	6	11	9	6	6				11	6
TOTAL ALPHA													
YUMA ARIZ	NO		1	3	3	4	3	2			1	3	2
	MIN		13	4	4	3	3	3				6	5
	MEAN		13	5	8	7	4	5				9	6
	MAX		13	6	11	10	6	6				12	6
SUSPENDED BETA													
YUMA ARIZ	NO		1	3	3	4	3	5	2	4	2	3	5
	MIN		14				1		3	1			
	MEAN		14	11	3	6	5	11	4	3	3	3	1
	MAX		14	21	6	12	9	19	4	6	6	5	3
DISSOLVED BETA													
YUMA ARIZ	NO		1	3	3	4	3	5	2	4	2	3	5
	MIN		22		6		6	6	28	25	29	27	8
	MEAN		22	9	19	12	16	39	32	29	32	34	17
	MAX		22	16	34	28	32	148	35	35	35	44	34
TOTAL BETA													
YUMA ARIZ	NO		1	3	3	4	3	5	2	4	2	3	5
	MIN		36	11	6		7	6	32	30	29	30	8
	MEAN		36	20	21	19	20	50	35	33	35	36	19
	MAX		36	28	40	39	41	167	38	38	41	47	37

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA													
EL PASO TEXAS	NO						1	1			1	4	1
	MIN						12	16			1	1	2
	MEAN						12	16			1	3	2
	MAX						12	16			1	6	2
DISSOLVED ALPHA													
EL PASO TEXAS	NO						1	1			1	4	1
	MIN						1	2			20		
	MEAN						1	2			20	3	
	MAX						1	2			20	4	
TOTAL ALPHA													
EL PASO TEXAS	NO						1	1			1	4	1
	MIN						13	18			21	1	2
	MEAN						13	18			21	5	2
	MAX						13	18			21	9	2
SUSPENDED BETA													
EL PASO TEXAS	NO						1	4	4	5	4	4	4
	MIN						34		28	26	3	42	25
	MEAN						34	33	53	37	127	104	122
	MAX						34	58	109	49	338	208	238
DISSOLVED BETA													
EL PASO TEXAS	NO						1	4	4	5	4	4	4
	MIN						16	17	11	31	39	44	26
	MEAN						16	23	26	132	88	64	65
	MAX						16	36	40	520	222	96	101
TOTAL BETA													
EL PASO TEXAS	NO						1	4	4	5	4	4	4
	MIN						50	36	45	64	46	92	80
	MEAN						50	55	79	169	214	168	186
	MAX						50	75	149	566	377	304	339

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA LAREDO TEXAS	NO		3	5	4	4	4	2					1
	MIN				1								18
	MEAN		3	2	2	1	2	1					18
	MAX		7	11	4	1	3	1					18
DISSOLVED ALPHA LAREDO TEXAS	NO		3	5	4	4	4	2					2
	MIN		1										
	MEAN		5	2	2	3	2	1					1
	MAX		10	8	3	6	3	1					1
TOTAL ALPHA LAREDO TEXAS	NO		3	5	4	4	4	2					1
	MIN		2		2	1	2	1					19
	MEAN		7	5	3	3	3	1					19
	MAX		10	14	4	6	4	1					19
SUSPENDED BETA LAREDO TEXAS	NO		3	5	4	4	4	5	4	4	5	4	5
	MIN		37	2	1		1		3				18
	MEAN		53	11	22	3	8	5	27	9	90	17	219
	MAX		75	32	76	5	19	14	80	24	320	28	589
DISSOLVED BETA LAREDO TEXAS	NO		3	5	4	4	4	5	4	4	5	4	5
	MIN		14		4		1		13	17	73	43	24
	MEAN		40	12	13	6	27	10	34	23	146	59	57
	MAX		61	33	28	12	54	20	56	37	229	94	125
TOTAL BETA LAREDO TEXAS	NO		3	5	4	4	4	5	4	4	5	4	5
	MIN		51	2	8	4	5	1	16	18	77	45	143
	MEAN		93	23	35	9	35	15	61	31	236	76	276
	MAX		136	47	80	13	62	23	136	46	532	122	613

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RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA PASCO WASH	NO		4	5	4	3	2	1					1
	MIN												
	MEAN												
	MAX												
DISSOLVED ALPHA PASCO WASH	NO		4	5	4	3	2	1					1
	MIN						1						1
	MEAN				1	5	1						1
	MAX		1	1	1	14	1						1
TOTAL ALPHA PASCO WASH	NO		4	5	4	3	2	1					1
	MIN						1						1
	MEAN				1	5	1						1
	MAX		1	1	1	14	1						1
SUSPENDED BETA PASCO WASH	NO		4	5	4	3	2	3	1	3	3	4	5
	MIN		10	50	58	61	43	38	60	11	16	45	42
	MEAN		33	89	87	116	69	126	60	27	26	83	92
	MAX		50	165	99	173	94	241	60	44	37	154	170
DISSOLVED BETA PASCO WASH	NO		4	5	4	3	2	3	1	3	3	4	5
	MIN		243	547	57	960	670	404	508	48	196	467	672
	MEAN		672	1456	1142	1120	792	612	508	279	415	817	915
	MAX		831	2698	1645	1330	913	890	508	435	748	1696	1169
TOTAL BETA PASCO WASH	NO		4	5	4	3	2	3	1	3	3	4	5
	MIN		293	613	115	1021	713	442	568	59	212	530	842
	MEAN		704	1545	1229	1236	860	738	568	305	441	900	1007
	MAX		876	2863	1743	1443	1007	989	568	479	785	1766	1261

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA BONNEVILLE ORE	NO		3	5	4	4	5						2
	MIN												
	MEAN												2
	MAX						1						4
DISSOLVED ALPHA BONNEVILLE ORE	NO		3	5	4	4	5						2
	MIN												
	MEAN		1	1	1	1	1						
	MAX		2	2	1	2	3						
TOTAL ALPHA BONNEVILLE ORE	NO		3	5	4	4	5						2
	MIN												
	MEAN		1	1	1	1	1						2
	MAX		2	2	1	2	3						4
SUSPENDED BETA BONNEVILLE ORE	NO		3	5	4	4	5	4	4	5	4	4	5
	MIN		14	27	3	50	46	32	48	20	10		19
	MEAN		30	34	44	57	62	57	62	32	32	20	90
	MAX		50	38	67	70	100	70	78	39	72	42	315
DISSOLVED BETA BONNEVILLE ORE	NO		3	5	4	4	5	4	4	5	4	4	5
	MIN		243	370	276	237	131	161	109	79	91	237	78
	MEAN		358	455	408	375	268	242	196	133	252	261	260
	MAX		482	578	545	510	416	296	242	222	384	322	393
TOTAL BETA BONNEVILLE ORE	NO		3	5	4	4	5	4	4	5	4	4	5
	MIN		293	408	317	307	177	193	180	112	115	237	299
	MEAN		387	489	452	432	330	299	258	165	284	281	350
	MAX		496	614	612	560	516	366	290	259	406	364	418

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA CLATSKANIE ORE	NO							1				2	1
	MIN												
	MEAN												
	MAX												
DISSOLVED ALPHA CLATSKANIE ORE	NO							1				2	1
	MIN							1					
	MEAN							1					
	MAX							1					
TOTAL ALPHA CLATSKANIE ORE	NO							1				2	1
	MIN							1					
	MEAN							1					
	MAX							1					
SUSPENDED BETA CLATSKANIE ORE	NO							4	4	5	3	4	4
	MIN							38	30	25	13	4	12
	MEAN							44	85	37	14	15	19
	MAX							52	225	44	15	21	26
DISSOLVED BETA CLATSKANIE ORE	NO							4	4	5	3	4	4
	MIN							104	73	56	145	156	16
	MEAN							154	123	102	163	197	177
	MAX							192	154	130	193	253	282
TOTAL BETA CLATSKANIE ORE	NO							4	4	5	3	4	4
	MIN							142	165	100	159	160	42
	MEAN							198	208	139	177	211	196
	MAX							234	298	173	206	270	295

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA													
WEISER IDAHO	NO			4	4	3	5						1
	MIN					1							
	MEAN					5	1						
	MAX			1		11	2						
DISSOLVED ALPHA													
WEISER IDAHO	NO			4	4	3	5						1
	MIN				1								3
	MEAN			1	2								3
	MAX			2	3								3
TOTAL ALPHA													
WEISER IDAHO	NO			4	4	3	5						1
	MIN				1	1							3
	MEAN			2	2	5	1						3
	MAX			2	3	11	2						3
SUSPENDED BETA													
WEISER IDAHO	NO			4	4	3	5	4	2	4	3	4	5
	MIN					12		5	5			2	
	MEAN			19	7	25	55	39	24	3	3	7	7
	MAX			47	17	39	233	107	43	8	6	12	25
DISSOLVED BETA													
WEISER IDAHO	NO			4	4	3	5	4	2	4	3	4	5
	MIN			3	6	1	8	3	1	11	17	24	6
	MEAN			14	15	5	23	9	8	43	36	49	23
	MAX			19	26	7	47	15	15	84	62	110	40
TOTAL BETA													
WEISER IDAHO	NO			4	4	3	5	4	2	4	3	4	5
	MIN			3	6	19	8	14	6	11	23	26	9
	MEAN			33	22	30	78	48	32	46	39	56	31
	MAX			66	31	46	277	119	58	84	65	116	64

RADIOACTIVITY IN SURFACE WATERS 1957 - 1958
MICROMICROCURIES PER LITER

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SUSPENDED ALPHA WAWAWAI WASH	NO											4	3
	MIN												
	MEAN												
	MAX											1	1
DISSOLVED ALPHA WAWAWAI WASH	NO											4	3
	MIN												
	MEAN											2	1
	MAX											4	2
TOTAL ALPHA WAWAWAI WASH	NO											4	3
	MIN												
	MEAN											3	2
	MAX											5	3
SUSPENDED BETA WAWAWAI WASH	NO											4	5
	MIN												
	MEAN											3	2
	MAX											7	5
DISSOLVED BETA WAWAWAI WASH	NO											4	5
	MIN											17	10
	MEAN											33	22
	MAX											63	48
TOTAL BETA WAWAWAI WASH	NO											4	5
	MIN											22	10
	MEAN											35	24
	MAX											65	48

RADIOACTIVITY IN SURFACE WATERS - 1957 1958
MICROMICROCURIES PER LITER

SUSPENDED ALPHA

	NO	MIN	MEAN	MED	MAX	DECILES /CUMULATIVE PERCENTAGES/ 10	20	30	40	50	60	70	80	90
NORTHEAST	17				3									
NORTH ATLANTIC	61		1		13							1	1	2
SOUTHEAST	19				2								1	1
TENNESSEE RIVER	6		1	1	1		1	1	1	1	1	1	1	1
OHIO RIVER	81		1	1	20					1	1	2	2	4
UPPER MISSISSIPPI	93		1		13							1	1	4
WESTERN GREAT LAK	44				1									
MISSOURI RIVER	141		3	1	21					1	2	3	5	10
SW LOWER MISS	70		7	3	89		1	1	2	3	5	6	9	15
COLORADO RIVER	54				2								1	1
WESTERN GULF	31		3	1	18			1	1	1	1	2	4	11
PACIFIC NORTHWEST	71				11									1
U. S. TOTAL	688		2		89						1	1	2	6
U. S. EXCL COL R	641		2		89						1	1	3	6

RADIOACTIVITY IN SURFACE WATERS - 1957 1958
MICROMICROCURIES PER LITER

DISSOLVED ALPHA

	NO	MIN	MEAN	MED	MAX	DECILES /CUMULATIVE PERCENTAGES/ 10	20	30	40	50	60	70	80	90
NORTHEAST	17				6									1
NORTH ATLANTIC	61		1		12								1	2
SOUTHEAST	19				2								1	1
TENNESSEE RIVER	6		1	1	1					1	1	1	1	1
OHIO RIVER	81		1		5							1	1	2
UPPER MISSISSIPPI	93		1	1	8				1	1	1	1	2	3
WESTERN GREAT LAK	45				2									1
MISSOURI RIVER	143		3	3	46		1	2	2	3	3	4	5	6
SW LOWER MISS	66		3	1	32					1	1	1	3	8
COLORADO RIVER	53		6	6	29		2	3	5	6	6	8	10	11
WESTERN GULF	32		3	1	20			1	1	1	2	3	3	6
PACIFIC NORTHWEST	71		1		14						1	1	2	2
U. S. TOTAL	687		2	1	46					1	1	2	3	5
U. S. EXCL COL R	640		2	1	46					1	1	2	3	6

RADIOACTIVITY IN SURFACE WATERS - 1957 1958
MICROMICROCURIES PER LITER

TOTAL ALPHA

	NO	MIN	MEAN	MED	MAX	DECILES /CUMULATIVE PERCENTAGES/ 10	20	30	40	50	60	70	80	90
NORTHEAST	17		1		6									3
NORTH ATLANTIC	61		2		15						1	2	2	3
SOUTHEAST	19		1		3							1	1	3
TENNESSEE RIVER	6		1	2	2		1	1	1	2	2	2	2	2
OHIO RIVER	81		2	1	21				1	1	2	2	3	5
UPPER MISSISSIPPI	93		2	1	16				1	1	1	2	3	7
WESTERN GREAT LAK	44				3									1
MISSOURI RIVER	141		6	5	48	1	2	3	4	5	6	7	10	12
SW LOWER MISS	66		10	5	89	1	2	3	4	5	7	9	13	37
COLORADO RIVER	53		7	6	30		2	4	5	6	7	8	11	12
WESTERN GULF	31		6	4	21	1	1	2	2	4	4	6	10	14
PACIFIC NORTHWEST	71		1	1	14					1	1	2	2	3
U. S. TOTAL	683		4	2	89				1	2	3	4	6	10
U. S. EXCL COL R	636		4	2	89			1	1	2	3	5	7	10

RADIOACTIVITY IN SURFACE WATERS - 1957 1958
MICROMICROCURIES PER LITER

SUSPENDED BETA

	NO	MIN	MEAN	MED	MAX	DECILES /CUMULATIVE PERCENTAGES/ 10	20	30	40	50	60	70	80	90
NORTHEAST	52		8	5	68			2	4	5	7	9	10	20
NORTH ATLANTIC	139		12	6	116			2	4	6	8	9	15	36
SOUTHEAST	58		14	10	84		3	5	7	10	13	16	20	31
TENNESSEE RIVER	28		20	15	89			3	9	15	20	26	35	57
OHIO RIVER	172		23	12	232		2	5	8	12	17	26	38	57
UPPER MISSISSIPPI	205		30	10	884		2	5	7	10	15	20	37	72
WESTERN GREAT LAK	87		3	3	19				1	3	5	6	8	10
MISSOURI RIVER	307		57	19	674		3	7	10	19	28	45	77	152
SW LOWER MISS	187		77	38	1001	6	15	23	29	38	49	67	102	149
COLORADO RIVER	101		9	4	160				2	4	6	8	10	18
WESTERN GULF	73		56	26	589	1	4	8	14	26	37	47	74	164
PACIFIC NORTHWEST	155		43	33	315	2	8	16	24	33	42	49	64	93
U. S. TOTAL	1564		37	12	1001		2	5	8	12	19	30	48	87
U. S. EXCL COL R	1456		35	10	1001		2	4	7	10	17	27	44	85

RADIOACTIVITY IN SURFACE WATERS - 1957 1958

MICROMICROCURIES PER LITER

DISSOLVED BETA

						DECILES /CUMULATIVE PERCENTAGES/								
	NO	MIN	MEAN	MED	MAX	10	20	30	40	50	60	70	80	90
NORTHEAST	52		14	13	87	1	4	7	10	13	15	18	20	27
NORTH ATLANTIC	139		19	12	112		3	6	9	12	16	20	28	40
SOUTHEAST	58		18	14	240	3	6	9	12	14	16	19	22	29
TENNESSEE RIVER	29		44	32	258	3	10	16	23	32	39	46	55	122
OHIO RIVER	173		24	18	200		5	9	14	18	22	28	36	52
UPPER MISSISSIPPI	205		34	27	259	2	9	16	22	27	33	39	48	66
WESTERN GREAT LAK	87		11	8	54		1	3	5	8	10	15	21	28
MISSOURI RIVER	308		35	28	491	7	14	20	24	28	33	39	46	61
SW LOWER MISS	187		58	34	1314	5	13	19	26	34	43	54	70	114
COLORADO RIVER	101		31	24	245	4	11	15	19	24	28	32	37	50
WESTERN GULF	73		50	33	520	5	13	17	23	33	39	47	62	99
PACIFIC NORTHWEST	155	1	323	289	2698	11	22	62	124	289	771	1253	1735	2217
U. S. TOTAL	1567		61	24	2698	2	8	13	18	24	30	38	51	103
U. S. EXCL COL R	1459		32	22	1314	2	7	12	17	22	27	34	43	64

RADIOACTIVITY IN SURFACE WATERS - 1957 1958
MICROMICROCURIES PER LITER

TOTAL BETA

	NO	MIN	MEAN	MED	MAX	DECILES /CUMULATIVE PERCENTAGES/ 10	20	30	40	50	60	70	80	90
NORTHEAST	52		21	17	91	3	7	11	14	17	20	25	33	39
NORTH ATLANTIC	139		31	21	177	3	8	12	17	21	26	32	51	81
SOUTHEAST	58		32	24	242	7	13	17	21	24	28	32	38	63
TENNESSEE RIVER	28		65	48	347	10	24	34	41	48	57	74	93	123
OHIO RIVER	172		47	33	340	5	12	19	26	33	42	52	66	100
UPPER MISSISSIPPI	205		65	43	994	9	18	26	35	43	50	59	77	134
WESTERN GREAT LAK	87		14	11	54		3	6	8	11	15	19	25	32
MISSOURI RIVER	307		92	51	786	14	22	30	39	51	61	85	120	297
SW LOWER MISS	187		135	71	1334	29	40	49	61	71	93	124	199	767
COLORADO RIVER	101		40	31	249	9	15	20	26	31	35	38	46	70
WESTERN GULF	73	1	106	61	613	11	17	40	49	61	72	96	149	350
PACIFIC NORTHWEST	155	3	366	553	2863	18	38	96	171	553	1015	1477	1939	2401
U. S. TOTAL	1564		98	40	2863	8	15	23	31	40	53	70	108	765
U. S. EXCL COL R	1456		68	37	1334	7	14	21	28	37	47	61	85	149

RADIOACTIVITY IN SURFACE WATERS 1957 1958
MICROMICROCURIES PER LITER

FREQUENCY DISTRIBUTION - UPPER CLASS LIMITS

SUSPENDED ALPHA	NO	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	OVR
NORTHEAST	17	16			1																
NORTH ATLANTIC	61	38	15	2	4		1								1						
SOUTHEAST	19	14	4	1																	
TENNESSEE RIVER	6	1	5																		
OHIO RIVER	81	36	20	10	5	4	3	1		1											1
UPPER MISSISSIPPI	93	62	13	4	3	4		1	1	2		2			1						
WESTERN GREAT LAK	44	42	2																		
MISSOURI RIVER	141	60	19	13	9	7	6	4	3	3	2	4	2	2			2	2		1	2
SW LOWER MISS	70	13	9	7	7	6	2	6	2	3	2	1			3	1	2				6
COLORADO RIVER	54	39	14	1																	
WESTERN GULF	31	8	11	4	1	1		1	1				1	1				1		1	
PACIFIC NORTHWEST	71	59	8	2		1							1								
U. S. TOTAL	688	388	120	44	30	23	12	13	7	9	4	7	4	3	5	1	4	3		2	9
U. S. EXCL COL R	641	344	118	44	30	22	12	13	7	9	4	7	4	3	5	1	4	3		2	9

RADIOACTIVITY IN SURFACE WATERS 1957 1958
MICROMICROCURIES PER LITER

DISSOLVED ALPHA — FREQUENCY DISTRIBUTION - UPPER CLASS LIMITS

	NO	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	OVR
NORTHEAST	17	15	1					1													
NORTH ATLANTIC	61	45	9	4					2					1							
SOUTHEAST	19	15	3	1																	
TENNESSEE RIVER	6	3	3																		
OHIO RIVER	81	56	16	3	3	1	2														
UPPER MISSISSIPPI	93	36	37	8	7	1	2			2											
WESTERN GREAT LAK	45	40	4	1																	
MISSOURI RIVER	143	28	11	25	26	16	19	5	7	3				1							2
SW LOWER MISS	66	31	17	4	4	2				3			2								3
COLORADO RIVER	53	7	2	4	3	3	5	8	5	2	2	2	5	1	1		1				2
WESTERN GULF	32	9	8	3	7	1		1		1		1									1
PACIFIC NORTHWEST	71	38	16	11	4	1										1					
U. S. TOTAL	687	323	127	64	54	25	28	15	14	11	2	3	7	3	1	1	1				8
U. S. EXCL COL R	640	296	113	60	53	25	28	15	14	11	2	3	7	3	1		1				8

RADIOACTIVITY IN SURFACE WATERS 1957 1958
MICROMICROCURIES PER LITER

FREQUENCY DISTRIBUTION - UPPER CLASS LIMITS

TOTAL ALPHA	NO	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	OVR
NORTHEAST	17	14	1		1			1													
NORTH ATLANTIC	61	31	11	8	5	1	1		2					1			1				
SOUTHEAST	19	13	3	1	2																
TENNESSEE RIVER	6	1	2	3																	
OHIO RIVER	81	28	19	10	9	5	2	2	4	1											1
UPPER MISSISSIPPI	93	28	28	11	11	1	3	1	2	1	2	1	1	1			1	1			
WESTERN GREAT LAK	44	38	5		1																
MISSOURI RIVER	141	14	7	14	10	15	16	11	12	10	3	10	4	1		2	1	2	2	2	5
SW LOWER MISS	66	5	3	8	5	9	4	5	2	4	4	1		1	2	2		2			9
COLORADO RIVER	53	6	3	2	3	5	4	8	6	1	1	2	6	1	2		1				2
WESTERN GULF	31	2	5	6	1	5	1	2		1	1	2			1	1				1	2
PACIFIC NORTHWEST	71	30	18	14	5	1	1						1			1					
U. S. TOTAL	683	210	105	77	53	42	32	30	28	18	11	16	12	5	5	6	4	5	2	3	19
U. S. EXCL COL R	636	185	91	72	52	41	32	30	28	18	11	16	12	5	5	5	4	5	2	3	19

RADIOACTIVITY IN SURFACE WATERS 1957 1958
MICROMICROCURIES PER LITER

FREQUENCY DISTRIBUTION
10 TIMES UPPER CLASS LIMITS

SUSPENDED BETA	NO	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	OVR
NORTHEAST	52	11	31	5	2	2			1												
NORTH ATLANTIC	139	31	74	13	3	8	2	1	1	2	1	1		2							
SOUTHEAST	58	6	25	17	4	3		1		1	1										
TENNESSEE RIVER	28	7	5	5	5	1	1	2		1	1										
OHIO RIVER	172	24	57	32	14	14	7	10	4	3	2		2			1					2
UPPER MISSISSIPPI	205	30	77	37	15	8	7	6	4	4	4	2	1	1		1				1	7
WESTERN GREAT LAK	87	33	48	6																	
MISSOURI RIVER	307	37	87	36	32	17	12	13	7	7	4	7	3	2	5	3	4	2	4	2	23
SW LOWER MISS	187	10	15	25	30	19	15	11	9	5	4	6	6	2	5	3	4	3	3		12
COLORADO RIVER	101	33	50	11	1	2				2	1							1			
WESTERN GULF	73	7	20	6	6	8	6	3	1	4		1	1	1	1				2		6
PACIFIC NORTHWEST	155	11	27	17	18	17	22	9	10	4	3	7	1	1				1	2	1	4
U. S. TOTAL	1564	240	516	210	130	99	72	56	37	33	21	24	14	9	11	8	8	7	11	4	54
U. S. EXCL COL R	1456	239	512	197	115	85	52	47	27	29	18	17	14	8	11	8	8	6	9	3	51

RADIOACTIVITY IN SURFACE WATERS 1957 1958
MICROMICROCURIES PER LITER

FREQUENCY DISTRIBUTION
10 TIMES UPPER CLASS LIMITS

DISSOLVED BETA	NO	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	OVR
NORTHEAST	52	4	17	21	8	1					1										
NORTH ATLANTIC	139	14	48	38	16	10	1	1	2	4	3	1		1							
SOUTHEAST	58	2	18	25	9	3															1
TENNESSEE RIVER	29	2	4	5	3	4	4	3	1						1			1			1
OHIO RIVER	173	19	37	42	32	16	9	4	6	1	3	1		1	1						1
UPPER MISSISSIPPI	205	17	28	32	38	35	19	11	8	3	4	1	1	2		1	1	1			3
WESTERN GREAT LAK	87	16	39	14	12	2	3	1													
MISSOURI RIVER	308	13	29	52	78	54	40	11	4	9	2	3	4	1	3		1			1	3
SW LOWER MISS	187	8	23	31	25	19	21	13	10	5	6	4	3	1	2	2		3		1	10
COLORADO RIVER	101	4	16	23	25	20	3	4		1	1						1		1		2
WESTERN GULF	73	4	7	17	5	13	8	4	3	3		2	1		1	1					4
PACIF!C NORTHWEST	155		14	16	7	3	4	2	3	3	2	4	3		3	2	3	2	2	1	81
U. S. TOTAL	1567	103	280	316	258	180	112	54	37	29	22	16	12	6	11	6	6	7	3	3	106
U. S. EXCL COL R	1459	103	280	315	258	180	111	52	37	26	21	12	10	6	8	4	3	5	1	2	25

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RADIOACTIVITY IN SURFACE WATERS 1957 1958
MICROMICROCURIES PER LITER

FREQUENCY DISTRIBUTION
10 TIMES UPPER CLASS LIMITS

TOTAL BETA	NO	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	OVR
NORTHEAST	52	2	13	18	7	8	1	1			1	1									
NORTH ATLANTIC	139	6	29	34	26	15	1	4	6	4	6	3	1	1		1		1		1	
SOUTHEAST	58	1	7	15	16	10	1	2	1	2	1				1						1
TENNESSEE RIVER	28	1	2	2	2	4	4	3	1	2	1	2	1		1			1			1
OHIO RIVER	172	5	25	26	25	19	19	11	13	4	2	6	5	2	2		1	1	2		4
UPPER MISSISSIPPI	205	5	19	24	23	24	30	23	10	9	5	5	3		3	5	2	1	1		13
WESTERN GREAT LAK	87	9	34	21	14	3	5	1													
MISSOURI RIVER	307	1	19	34	41	33	23	33	11	15	11	14	4	7	6	5	1	1	6	4	38
SW LOWER MISS	187	1	2	6	11	18	21	14	20	8	9	10	8	2	3	4	2	6	3	1	38
COLORADO RIVER	101	2	10	20	16	29	7	5	2	1	1	2	1						1	1	3
WESTERN GULF	73		7	11	1	3	9	5	7	5	2	2		1	1	2	3	1	1		12
PACIFIC NORTHWEST	155		7	11	10	4	5	2	5	1	1	1		8		1	1	2	3	3	90
U. S. TOTAL	1564	33	174	222	192	170	126	104	76	51	40	46	23	21	17	18	10	14	17	10	200
U. S. EXCL COL R	1456	33	174	222	192	170	125	103	76	51	40	45	23	15	17	17	9	12	14	7	111

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

TOTAL EXTRACTABLE

	NO	MIN	MEAN	MED	MAX	DECILES /CUMULATIVE PERCENTAGES/ 10	20	30	40	50	60	70	80	90
ARKANSAS RIVER	2	165	194	180	223	164	168	172	176	180	224	228	232	236
COLORADO RIVER	20	113	224	215	340	140	170	190	205	215	240	253	280	330
COLUMBIA RIVER	23	41	111	92	305	55	68	79	86	92	99	114	154	214
DELAWARE RIVER	12	57	124	93	329	61	69	77	85	93	122	134	172	216
DETROIT RIVER	10	106	132	126	177	105	110	115	120	126	133	140	160	170
LAKE SUPERIOR	11	105	133	132	162	107	114	121	127	132	138	144	152	159
LAKE ERIE	12	164	203	200	240	180	185	190	195	200	208	216	226	238
HUDSON RIVER	4	517	745	835	1290	471	562	653	744	835	926	1017	1108	1199
MERRIMACK RIVER	5	211	383	310	789	210	220	290	300	310	320	330	340	585
MISSISSIPPI RIVER	66	48	259	246	809	106	132	175	221	246	265	281	338	455
MISSOURI RIVER	70	68	178	163	438	95	125	138	150	163	173	192	216	290
OHIO RIVER	40	104	318	256	1387	145	166	200	243	256	286	308	340	812
POTOMAC RIVER	17	152	208	205	322	167	182	190	199	205	210	216	226	246
RED RIVER	2	213	263	220	313	204	208	212	216	220	304	308	312	316
RIO GRANDE	17	69	208	157	712	94	114	140	149	157	188	199	292	326
SAVANNAH RIVER	12	136	251	220	437	132	184	196	208	220	232	248	352	403
SNAKE RIVER	8	118	185	160	360	116	132	144	152	160	176	192	208	364
TENNESSEE RIVER	7	100	160	130	342	104	109	114	118	130	144	158	192	346
U. S. TOTAL	338	41	220	187	1387	98	121	144	165	187	210	241	284	348

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

CHLOROFORM EXTR

						DECILES /CUMULATIVE PERCENTAGES/								
	NO	MIN	MEAN	MED	MAX	10	20	30	40	50	60	70	80	90
ARKANSAS RIVER	2	72	80	80	88	72	74	76	78	80	82	84	86	88
COLORADO RIVER	20	32	65	60	129	36	45	52	56	60	70	74	78	110
COLUMBIA RIVER	23	13	37	26	168	13	16	19	23	26	29	37	52	67
DELAWARE RIVER	12	24	38	36	62	23	26	29	32	36	41	47	53	59
DETROIT RIVER	10	23	24	27	39	21	22	24	25	27	28	30	33	36
LAKE SUPERIOR	11	18	27	27	45	15	20	22	24	27	29	33	39	44
LAKE ERIE	11	32	56	52	93	35	40	44	48	52	58	63	69	79
HUDSON RIVER	4	196	326	374	558	226	263	300	337	374	411	448	485	522
MERRIMACK RIVER	5	129	185	137	335	125	130	132	135	137	140	226	263	299
MISSISSIPPI RIVER	66	10	85	82	329	33	43	52	72	82	92	100	116	136
MISSOURI RIVER	70	15	48	38	228	22	27	31	35	38	44	51	63	84
OHIO RIVER	40	35	124	100	387	60	72	80	90	100	110	145	170	229
POTOMAC RIVER	17	40	71	66	118	48	53	57	62	66	72	84	92	97
RED RIVER	2	102	117	110	132	102	104	106	108	110	132	134	136	138
RIO GRANDE	16	23	54	46	12[illegible]	28	33	37	41	46	53	62	74	84
SAVANNAH RIVER	11	50	121	88	341	61	72	81	84	88	106	117	138	258
SNAKE RIVER	8	37	50	53	66	38	43	47	50	53	56	58	62	66
TENNESSEE RIVER	7	35	57	45	131	33	37	40	42	45	47	49	66	133
U. S. TOTAL	335	10	73	56	558	24	32	38	46	56	69	82	100	135

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

ALCOHOL EXTRACT

						DECILES /CUMULATIVE PERCENTAGES/								
	NO	MIN	MEAN	MED	MAX	10	20	30	40	50	60	70	80	90
ARKANSAS RIVER	2	93	114	105	135	93	96	99	102	105	138	141	144	147
COLORADO RIVER	20	72	158	150	251	90	115	123	131	150	165	210	216	222
COLUMBIA RIVER	23	26	74	65	226	31	43	52	60	65	70	76	97	125
DELAWARE RIVER	12	22	86	56	267	31	40	47	51	56	76	85	129	162
DETROIT RIVER	10	74	102	97	141	75	80	85	90	97	105	112	120	142
LAKE SUPERIOR	11	85	105	106	140	80	86	92	100	106	109	113	116	119
LAKE ERIE	11	109	148	145	175	121	135	138	142	145	148	160	169	174
HUDSON RIVER	4	272	420	434	732	276	282	314	374	434	494	553	613	673
MERRIMACK RIVER	5	82	199	157	454	82	90	127	135	157	165	172	180	370
MISSISSIPPI RIVER	66	38	174	159	686	66	90	111	141	159	176	195	209	282
MISSOURI RIVER	70	50	130	120	321	66	87	102	111	120	128	138	150	210
OHIO RIVER	40	65	194	153	1063	78	97	116	138	153	165	177	210	277
POTOMAC RIVER	17	94	137	131	204	108	117	122	127	131	136	149	158	184
RED RIVER	2	111	146	120	181	108	111	114	117	120	183	186	189	192
RIO GRANDE	16	36	147	120	633	54	69	87	108	120	132	144	162	205
SAVANNAH RIVER	11	32	121	123	240	76	91	99	111	123	132	138	144	149
SNAKE RIVER	8	67	134	105	294	72	84	93	99	105	117	144	171	287
TENNESSEE RIVER	7	65	103	93	211	63	67	70	74	93	99	104	114	214
U. S. TOTAL	335	22	147	125	1063	62	81	98	112	125	139	156	185	228

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

ETHER INSOLUABLES

	NO	MIN	MEAN	MED	MAX	DECILES /CUMULATIVE PERCENTAGES/ 10	20	30	40	50	60	70	80	90
ARKANSAS RIVER	2	1	1	2	1		1	1	1	2	2	2	2	3
COLORADO RIVER	20	1	1	2	4		1	1	1	2	2	2	3	3
COLUMBIA RIVER	23		1	2	2		1	1	1	2	2	2	2	3
DELAWARE RIVER	12		1	2	1		1	1	1	2	2	2	2	3
DETROIT RIVER	10		1	2	1		1	1	1	2	2	2	2	3
LAKE SUPERIOR	11		1	2	5		1	1	1	2	2	2	3	3
LAKE ERIE	11		1	2	3		1	1	1	2	2	2	3	3
HUDSON RIVER	4	2	5	4	11	1	2	3	3	4	5	5	9	10
MERRIMACK RIVER	5	1	2	3	3	1	1	2	2	3	3	3	4	5
MISSISSIPPI RIVER	65		2	2	8		1	1	1	2	2	3	3	4
MISSOURI RIVER	69		1	2	4		1	1	1	2	2	2	3	3
OHIO RIVER	40		2	2	15		1	1	2	2	2	3	4	5
POTOMAC RIVER	17		1	2	3		1	1	1	2	2	2	3	3
RED RIVER	2	1	3	3	4	1	1	2	2	3	3	4	4	5
RIO GRANDE	16		1	2	3		1	1	1	2	2	2	3	3
SAVANNAH RIVER	9	1	1	2	3		1	1	1	2	2	2	3	3
SNAKE RIVER	8	1	1	2	2		1	1	1	2	2	2	2	3
TENNESSEE RIVER	7		1	2	1		1	1	1	2	2	2	2	3
U. S. TOTAL	331		1	2	15		1	1	1	2	2	2	3	3

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

WATER SOLUABLES

						DECILES /CUMULATIVE PERCENTAGES/								
	NO	MIN	MEAN	MED	MAX	10	20	30	40	50	60	70	80	90
ARKANSAS RIVER	2	11	13	12	14	9	10	10	11	12	12	13	13	14
COLORADO RIVER	20		17	15	38	6	9	11	13	15	18	21	24	33
COLUMBIA RIVER	23	2	8	5	33	3	3	4	4	5	6	7	8	17
DELAWARE RIVER	12	2	10	9	19	3	5	6	7	9	10	11	13	17
DETROIT RIVER	10	3	7	7	10	3	4	5	6	7	8	9	10	11
LAKE SUPERIOR	11	1	7	7	15	3	4	5	6	7	8	10	11	14
LAKE ERIE	11	1	10	9	18	3	6	7	8	9	11	16	17	19
HUDSON RIVER	4	58	74	84	110	62	67	73	78	84	89	94	100	105
MERRIMACK RIVER	5	29	43	40	70	28	30	31	33	40	42	46	48	64
MISSISSIPPI RIVER	65		19	18	96	5	8	11	16	18	20	23	26	34
MISSOURI RIVER	69		12	9	89	3	4	6	7	9	11	13	15	27
OHIO RIVER	40		25	21	66	6	12	14	18	21	24	30	37	42
POTOMAC RIVER	17	8	21	22	32	13	15	17	20	22	23	24	26	28
RED RIVER	2	23	35	24	47	21	22	22	23	24	45	46	46	47
RIO GRANDE	16		9	9	28	3	4	5	7	9	10	12	14	19
SAVANNAH RIVER	9	12	34	31	70	13	14	28	29	31	37	42	45	58
SNAKE RIVER	8		8	9	15	2	6	8	9	9	10	10	11	15
TENNESSEE RIVER	7	6	12	10	26	6	7	8	8	10	12	13	14	24
U. S. TOTAL	331		17	12	110	3	6	8	10	12	15	19	25	34

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

TOTAL NEUTRALS

						DECILES /CUMULATIVE PERCENTAGES/								
	NO	MIN	MEAN	MED	MAX	10	20	30	40	50	60	70	80	90
ARKANSAS RIVER	2	35	35	37	35	35	36	36	37	37	38	38	39	39
COLORADO RIVER	20	7	19	18	39	10	13	15	17	18	20	22	25	32
COLUMBIA RIVER	23	3	12	8	59	5	6	7	8	8	9	13	17	26
DELAWARE RIVER	12	7	13	10	33	6	7	8	9	10	12	14	18	24
DETROIT RIVER	10	7	10	9	16	5	6	7	8	9	10	11	13	15
LAKE SUPERIOR	11	3	5	6	8	2	4	5	5	6	7	7	8	9
LAKE ERIE	11	11	19	17	42	12	15	15	16	17	17	18	19	19
HUDSON RIVER	4	41	94	50	234	42	44	46	48	50	52	54	127	181
MERRIMACK RIVER	5	35	57	42	121	36	37	38	40	42	45	52	55	111
MISSISSIPPI RIVER	65	4	28	22	83	10	14	16	19	22	26	31	41	60
MISSOURI RIVER	69	5	13	12	41	6	8	9	11	12	13	15	19	24
OHIO RIVER	40	16	50	41	255	20	28	33	37	41	43	50	56	80
POTOMAC RIVER	17	11	19	17	32	11	12	14	15	17	19	22	26	28
RED RIVER	2	26	27	27	28	25	26	26	27	27	28	28	29	29
RIO GRANDE	16	11	25	21	54	12	14	16	19	21	23	31	39	51
SAVANNAH RIVER	9	10	21	18	49	12	14	15	17	18	19	25	28	45
SNAKE RIVER	8	13	22	18	44	12	14	15	17	18	19	23	37	41
TENNESSEE RIVER	7	10	19	13	54	10	11	12	12	13	14	14	23	51
U. S. TOTAL	331	3	24	17	255	7	9	12	14	17	20	26	35	46

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

ALIPHATICS-NEUTRAL

	NO	MIN	MEAN	MED	MAX	DECILES /CUMULATIVE PERCENTAGES/ 10	20	30	40	50	60	70	80	90
ARKANSAS RIVER	2	6	6	7	6	6	6	6	7	7	7	8	8	8
COLORADO RIVER	20		2	3	6	1	1	2	2	3	3	3	4	5
COLUMBIA RIVER	23		3	2	18		1	1	2	2	2	3	4	8
DELAWARE RIVER	12	1	3	2	10		1	1	2	2	3	4	6	8
DETROIT RIVER	10	1	2	2	7		1	1	2	2	2	3	3	6
LAKE SUPERIOR	11		1	2	2		1	1	1	2	2	2	2	3
LAKE ERIE	11	1	3	2	6		1	1	2	2	3	3	4	5
HUDSON RIVER	4	2	3	2	5		1	1	2	2	2	3	3	4
MERRIMACK RIVER	5	7	15	10	38	7	9	9	10	10	11	11	12	37
MISSISSIPPI RIVER	65		2	2	10		1	1	2	2	3	3	4	6
MISSOURI RIVER	69		2	2	21		1	1	2	2	3	3	3	5
OHIO RIVER	40	1	10	8	44	2	3	5	6	8	10	12	14	21
POTOMAC RIVER	17		2	2	6		1	1	2	2	3	3	4	5
RED RIVER	2	1	3	3	4	1	1	2	2	3	3	4	4	5
RIO GRANDE	16	1	10	9	24	2	3	4	5	9	11	15	16	19
SAVANNAH RIVER	9		3	2	8		1	1	2	2	3	6	7	8
SNAKE RIVER	8	1	7	5	26	1	2	3	4	5	5	7	10	24
TENNESSEE RIVER	7	1	3	2	15		1	1	1	2	2	2	3	15
U. S. TOTAL	331		4	3	44	1	1	2	2	3	3	4	6	10

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

AROMATICS-NEUTRAL	NO	MIN	MEAN	MED	MAX	DECILES /CUMULATIVE PERCENTAGES/ 10	20	30	40	50	60	70	80	90
ARKANSAS RIVER	2	6	7	7	8	6	6	5	7	7	7	8	8	8
COLORADO RIVER	20		2	2	4		1	1	1	2	2	2	3	3
COLUMBIA RIVER	23		2	2	12		1	1	1	2	2	3	3	4
DELAWARE RIVER	12		1	2	3		1	1	2	2	2	3	3	4
DETROIT RIVER	10	1	1	2	2		1	1	1	2	2	2	2	3
LAKE SUPERIOR	11		1	2	1		1	1	1	2	2	2	2	3
LAKE ERIE	11	1	2	2	2		1	1	1	2	2	2	2	3
HUDSON RIVER	4	3	24	6	80	3	4	4	5	6	7	8	61	71
MERRIMACK RIVER	5	4	7	5	13	3	4	4	5	5	6	7	9	13
MISSISSIPPI RIVER	65	1	5	2	37		1	1	2	2	3	4	5	15
MISSOURI RIVER	69		2	2	7		1	1	1	2	2	2	3	3
OHIO RIVER	40	2	10	6	98	3	3	4	5	6	7	8	10	15
POTOMAC RIVER	17	1	2	2	3		1	1	1	2	2	3	3	4
RED RIVER	2	3	4	4	4	3	3	3	4	4	4	5	5	5
RIO GRANDE	16	1	4	4	9	1	2	3	3	4	4	5	5	8
SAVANNAH RIVER	9	1	2	3	4	1	1	2	2	3	3	3	4	5
SNAKE RIVER	8	1	3	2	8		1	1	2	2	2	3	4	6
TENNESSEE RIVER	7	1	2	2	8		1	1	1	2	2	2	3	6
U. S. TOTAL	331		4	2	98		1	1	2	2	3	3	5	7

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

OXYGENATED COMP-N

	NO	MIN	MEAN	MED	MAX	DECILES /CUMULATIVE PERCENTAGES/ 10	20	30	40	50	60	70	80	90
ARKANSAS RIVER	2	18	19	19	20	18	18	18	19	19	19	20	20	20
COLORADO RIVER	20	5	13	13	31	7	9	10	12	13	14	15	17	22
COLUMBIA RIVER	23	2	7	5	24	3	3	4	5	5	6	8	11	14
DELAWARE RIVER	12	4	8	7	15	4	6	6	7	7	8	8	9	11
DETROIT RIVER	10	4	6	6	8	4	5	6	6	6	7	7	8	8
LAKE SUPERIOR	11	1	3	4	4	2	3	3	3	4	4	4	5	5
LAKE ERIE	11	8	13	12	31	7	9	10	12	12	13	14	14	17
HUDSON RIVER	4	29	61	39	133	28	29	36	37	39	43	44	72	103
MERRIMACK RIVER	5	21	32	28	62	21	22	23	24	28	30	31	33	60
MISSISSIPPI RIVER	65	2	18	16	66	7	9	11	13	16	19	22	25	31
MISSOURI RIVER	69	2	9	8	24	4	5	6	7	8	9	10	11	14
OHIO RIVER	40	7	26	22	103	10	12	14	17	22	25	30	37	47
POTOMAC RIVER	17	7	13	12	21	8	9	10	11	12	13	14	17	21
RED RIVER	2	18	19	19	20	18	18	18	19	19	19	20	20	20
RIO GRANDE	16	4	10	10	21	4	5	6	8	10	11	13	14	19
SAVANNAH RIVER	9	8	12	12	21	8	9	10	11	12	13	14	15	21
SNAKE RIVER	8	7	11	11	15	7	8	9	10	11	11	12	14	15
TENNESSEE RIVER	7	7	12	10	29	7	8	9	9	10	11	11	16	27
U. S. TOTAL	331	1	14	11	133	4	6	8	9	11	13	15	20	27

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

LOSS-NEUTRALS

	NO	MIN	MEAN	MED	MAX	DECILES /CUMULATIVE PERCENTAGES/ 10	20	30	40	50	60	70	80	90
ARKANSAS RIVER	2	3	3	4	3	3	3	3	4	4	4	5	5	5
COLORADO RIVER	20		2	2	11		1	1	2	2	2	3	3	5
COLUMBIA RIVER	23		1	2	5		1	1	1	2	2	2	3	3
DELAWARE RIVER	12		1	2	5		1	1	1	2	2	2	3	3
DETROIT RIVER	10		1	2	2		1	1	1	2	2	2	2	3
LAKE SUPERIOR	11			2	1		1	1	1	2	2	2	2	3
LAKE ERIE	11		1	2	7		1	1	1	2	2	2	3	3
HUDSON RIVER	4	2	6	4	16	1	2	3	3	4	5	5	15	16
MERRIMACK RIVER	5		3	3	8	1	2	2	3	3	4	5	6	7
MISSISSIPPI RIVER	65		3	3	12	1	1	2	2	3	3	4	5	6
MISSOURI RIVER	69		1	2	6		1	1	1	2	2	2	3	3
OHIO RIVER	40	1	7	4	78	1	2	3	4	4	5	6	8	12
POTOMAC RIVER	17		2	3	4	1	1	2	2	3	3	3	4	5
RED RIVER	2	2	2	2	2		1	1	1	2	2	2	2	3
RIO GRANDE	16		2	2	13		1	1	1	2	2	2	3	4
SAVANNAH RIVER	9		3	2	16		1	1	2	2	2	3	6	15
SNAKE RIVER	8	1	2	2	3		1	1	2	2	2	3	3	4
TENNESSEE RIVER	7		1	2	2		1	1	1	2	2	2	2	3
U. S. TOTAL	331		2	2	78		1	1	2	2	3	3	4	5

WEAK ACIDS

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

						DECILES /CUMULATIVE PERCENTAGES/								
	NO	MIN	MEAN	MED	MAX	10	20	30	40	50	60	70	80	90
ARKANSAS RIVER	2	9	10	10	10	9	9	9	10	10	10	11	11	11
COLORADO RIVER	20	1	6	6	12	3	4	4	5	6	6	7	8	10
COLUMBIA RIVER	23	1	4	3	13	1	2	2	3	3	4	4	5	8
DELAWARE RIVER	12	2	3	3	7	1	2	3	3	3	4	4	5	5
DETROIT RIVER	10	1	2	3	3	1	1	2	2	3	3	4	4	5
LAKE SUPERIOR	11	1	2	2	3		1	1	1	2	2	3	3	4
LAKE ERIE	11	2	7	7	13	2	3	4	6	7	7	8	11	13
HUDSON RIVER	4	18	30	31	39	19	20	30	30	31	32	32	39	40
MERRIMACK RIVER	5	13	29	28	60	12	13	14	15	28	30	31	33	59
MISSISSIPPI RIVER	65	1	9	9	35	3	4	5	7	9	10	11	14	16
MISSOURI RIVER	69	1	4	4	14	1	2	3	3	4	4	5	6	9
OHIO RIVER	40	2	12	10	44	6	7	8	9	10	11	15	19	21
POTOMAC RIVER	17	3	6	6	10	3	4	4	5	6	6	7	8	9
RED RIVER	2	7	9	9	11	6	7	7	8	9	9	10	10	11
RIO GRANDE	16	1	5	6	12	1	2	3	5	6	6	7	8	8
SAVANNAH RIVER	9	4	7	7	12	4	5	6	6	7	7	8	8	12
SNAKE RIVER	8	1	5	5	8	2	3	4	4	5	5	6	7	8
TENNESSEE RIVER	7	4	6	5	11	3	3	4	4	5	5	5	7	9
U. S. TOTAL	331	1	7	5	60	2	3	4	4	5	7	8	10	14

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

STRONG ACIDS

	NO	MIN	MEAN	MED	MAX	DECILES /CUMULATIVE PERCENTAGES/ 10	20	30	40	50	60	70	80	90
ARKANSAS RIVER	2	4	6	6	8	3	4	4	5	6	6	7	7	8
COLORADO RIVER	20	1	5	4	16	1	2	3	4	4	5	6	7	9
COLUMBIA RIVER	23	1	3	2	13		1	1	2	2	2	3	3	5
DELAWARE RIVER	12	1	2	2	4		1	1	1	2	2	3	3	4
DETROIT RIVER	10		1	2	2		1	1	1	2	2	2	2	3
LAKE SUPERIOR	11	1	2	2	4		1	1	1	2	2	3	3	4
LAKE ERIE	11	1	4	4	8	2	3	3	4	4	4	5	5	7
HUDSON RIVER	4	24	43	36	78	25	26	33	34	36	37	38	61	70
MERRIMACK RIVER	5	6	13	11	23	7	9	9	10	11	12	16	18	22
MISSISSIPPI RIVER	64	1	6	6	26	1	3	3	5	6	7	8	10	13
MISSOURI RIVER	69		3	3	23	1	1	2	3	3	4	4	5	7
OHIO RIVER	40	1	9	6	29	3	3	4	5	6	9	12	14	18
POTOMAC RIVER	17	2	5	5	9	2	3	3	4	5	6	6	7	8
RED RIVER	2	9	10	10	11	9	9	9	10	10	10	11	11	11
RIO GRANDE	16	1	2	2	5		1	1	2	2	3	3	4	5
SAVANNAH RIVER	9	2	6	6	10	3	3	4	5	6	7	8	9	10
SNAKE RIVER	8	1	2	2	4		1	1	2	2	3	3	4	5
TENNESSEE RIVER	7	2	4	4	7	1	2	3	3	4	4	5	5	6
U. S. TOTAL	330		5	4	78	1	2	2	3	4	5	6	8	11

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

BASES

						DECILES /CUMULATIVE PERCENTAGES/								
	NO	MIN	MEAN	MED	MAX	10	20	30	40	50	60	70	80	90
ARKANSAS RIVER	2	9	10	10	10	9	9	9	10	10	10	11	11	11
COLORADO RIVER	20	1	6	6	12	3	4	4	5	6	6	7	8	10
COLUMBIA RIVER	23	1	4	3	13	1	2	2	3	3	4	4	5	6
DELAWARE RIVER	12	2	3	3	7	1	2	3	3	3	4	4	5	5
DETROIT RIVER	10	1	2	3	3	1	1	2	2	3	3	4	4	5
LAKE SUPERIOR	11	1	2	2	3		1	1	1	2	2	3	3	4
LAKE ERIE	11	2	7	7	13	2	3	4	6	7	7	8	11	13
HUDSON RIVER	4	18	30	31	39	19	20	30	30	31	32	32	39	40
MERRIMACK RIVER	5	13	29	28	60	12	13	14	15	28	30	31	33	59
MISSISSIPPI RIVER	65	1	9	9	35	3	4	5	7	9	10	11	14	16
MISSOURI RIVER	69	1	4	4	14	1	2	3	3	4	4	5	6	9
OHIO RIVER	40	2	12	10	44	6	7	8	9	10	11	15	19	21
POTOMAC RIVER	17	3	6	6	10	3	4	4	5	6	6	7	8	9
RED RIVER	2	7	9	9	11	6	7	7	8	9	9	10	10	11
RIO GRANDE	16	1	5	6	12	1	2	3	5	6	6	7	8	8
SAVANNAH RIVER	9	4	7	7	12	4	5	6	6	7	7	8	8	12
SNAKE RIVER	8	1	5	5	8	2	3	4	4	5	5	6	7	8
TENNESSEE RIVER	7	4	6	5	11	3	3	4	4	5	5	5	7	9
U. S. TOTAL	331	1	7	5	60	2	3	4	4	5	7	8	10	14

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

CHLOROFORM LOSS

	NO	MIN	MEAN	MED	MAX	DECILES /CUMULATIVE PERCENTAGES/ 10	20	30	40	50	60	70	80	90
ARKANSAS RIVER	2	4	6	6	8	3	4	4	5	6	6	7	7	8
COLORADO RIVER	20	1	5	4	16	1	2	3	4	4	5	6	7	9
COLUMBIA RIVER	23	1	3	2	13		1	1	2	2	2	3	3	5
DELAWARE RIVER	12	1	2	2	4		1	1	1	2	2	3	3	4
DETROIT RIVER	10		1	2	2		1	1	1	2	2	2	2	3
LAKE SUPERIOR	11	1	2	2	4		1	1	1	2	2	3	3	4
LAKE ERIE	11	1	4	4	8	2	3	3	4	4	4	5	5	7
HUDSON RIVER	4	24	43	36	78	25	26	33	34	36	37	38	61	70
MERRIMACK RIVER	5	6	13	11	23	7	9	9	10	11	12	16	18	22
MISSISSIPPI RIVER	64	1	6	6	26	1	3	3	5	6	7	8	10	13
MISSOURI RIVER	69		3	3	23	1	1	2	3	3	4	4	5	7
OHIO RIVER	40	1	9	6	29	3	3	4	5	6	9	12	14	18
POTOMAC RIVER	17	2	5	5	9	2	3	3	4	5	6	6	7	8
RED RIVER	2	9	10	10	11	9	9	9	10	10	10	11	11	11
RIO GRANDE	16	1	2	2	5		1	1	2	2	3	3	4	5
SAVANNAH RIVER	9	2	6	6	10	3	3	4	5	6	7	8	9	10
SNAKE RIVER	8	1	2	2	4		1	1	2	2	3	3	4	5
TENNESSEE RIVER	7	2	4	4	7	1	2	3	3	4	4	5	5	6
U. S. TOTAL	330		5	4	78	1	2	2	3	4	5	6	8	11

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

TOTAL EXTRACTABLE

FREQUENCY DISTRIBUTION - UPPER CLASS LIMITS

	No.	19	39	59	79	99	119	139	159	179	199	219	239	259	279	299	319	339	359	379	Over
ARKANSAS RIVER	2									1			1								
COLORADO RIVER	20						1	1	1	2	2	4	1	3	1	1		2	1		
COLUMBIA RIVER	23			3	4	7	3		2	1		1	1				1				
DELAWARE RIVER	12			1	3	3		2		1		1						1			
DETROIT RIVER	10						4	3	1	2											
LAKE SUPERIOR	11						3	4	3	1											
LAKE ERIE	12									1	5	3	2	1							
HUDSON RIVER	4																				4
MERRIMACK RIVER	5											1				1	1	1			1
MISSISSIPPI RIVER	66			1	1	2	8	2	2	5	1	4	5	6	9	3	2	2		5	8
MISSOURI RIVER	70				4	4	3	11	11	13	5	6	2	1	2	2	2	1	1		2
OHIO RIVER	40						2	1	4	3	2	2	1	6	2	3	5	1	1		7
POTOMAC RIVER	17								1	2	4	6	2	1				1			
RED RIVER	2											1					1				
RIO GRANDE	17				1	1	2	1	4		3	1				1	1	1			1
SAVANNAH RIVER	12							2			2	2	2	1					1		2
SNAKE RIVER	8						1	1	2	1	1	1								1	
TENNESSEE RIVER	7						3	1	1		1								1		
U. S. TOTAL	338			5	13	17	30	29	32	33	26	33	17	19	14	11	13	10	5	6	25

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ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

CHLOROFORM EXTR

FREQUENCY DISTRIBUTION - UPPER CLASS LIMITS

	No.	9	19	29	39	49	59	69	79	89	99	99	109	119	129	139	149	159	169	179	189	Over
ARKANSAS RIVER	2								1	1												
COLORADO RIVFR	20				3	2	5	2	5			1	1	1								
COLUMBIA RIVFR	23		7	7	3	1	2	1	1									1				
DELAWARE RIVER	12			4	3	2	2	1														
DETROIT RIVER	10			7	3																	
LAKE SUPERIOR	11		2	5	2	2																
LAKE ERIE	11				2	3	2	2	1		1											
HUDSON RIVER	4																				4	
MERRIMACK RIVER	5													1	2						2	
MISSISSIPPI RIVER	66		1	4	5	9	3	3	6	7	8	5	3	2	5		2	1		1	1	
MISSOURI RIVER	70		4	14	19	11	7	3	3	5		1	1					1			1	
OHIO RIVER	40				2	1	1	3	5	4	4	4		2	1	2	2	1	1	2	5	
POTOMAC RIVER	17					2	4	4	1	2	3		1									
RED RIVER	2											1			1							
RIO GRANDF	16			2	4	3	2	1	2	1				1								
SAVANNAH RIVFR	11						1	1	1	3		1	1		1						2	
SNAKE RIVER	8				1	2	3	2														
TENNESSEE RIVER	7				2	3		1							1							
U. S. TOTAL	335		14	43	49	41	32	24	26	23	16	13	7	7	11	2	4	4	1	3	15	

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

ALCOHOL EXTRACT

FREQUENCY DISTRIBUTION - UPPER CLASS LIMITS

	No.	14	29	44	59	74	89	104	119	134	149	164	179	194	209	224	239	254	269	284	Over
ARKANSAS RIVER	2							1			1										
COLORADO RIVER	20					1	1		3	4	1	2		1	1	5		1			
COLUMBIA RIVER	23		2	3	4	7	1	3		2							1				
DELAWARE RIVER	12		1	2	4		2			1		1							1		
DETROIT RIVER	10					1	3	2	2		2										
LAKE SUPERIOR	11						3	2	5		1										
LAKE ERIE	11								1	1	5	1	3								
HUDSON RIVER	4																			1	3
MERRIMACK RIVER	5						1			1		1	1								1
MISSISSIPPI RIVER	66			2	3	4	4	5	4	2	6	5	6	5	7	2	1		1	3	6
MISSOURI RIVER	70				5	5	5	7	13	12	9	1	1	4	1	2		2	1	1	1
OHIO RIVER	40					3	4	2	4	2	4	5	5	1	2	1		2		2	3
POTOMAC RIVER	17							1	3	6	2	3		1	1						
RED RIVER	2								1					1							
RIO GRANDE	16			1	1	2	1	1	2	2	2	1			2						1
SAVANNAH RIVER	11			1			1	2	1	2	3							1			
SNAKE RIVER	8					1	1	2	1		1		1								1
TENNESSEE RIVER	7					3		2	1							1					
U. S. TOTAL	335		3	9	17	27	27	30	41	35	37	20	17	13	14	11	2	6	3	7	16

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

ETHER INSOLUABLES

FREQUENCY DISTRIBUTION - UPPER CLASS LIMITS

	NO	2	5	8	11	14	17	20	23	26	29	32	35	38	41	44	47	50	53	56	OVR
ARKANSAS RIVER	2	2																			
COLORADO RIVER	20	18	2																		
COLUMBIA RIVER	23	23																			
DELAWARE RIVER	12	12																			
DETROIT RIVER	10	10																			
LAKE SUPERIOR	11	10	1																		
LAKE ERIE	11	10	1																		
HUDSON RIVER	4	1	2		1																
MERRIMACK RIVER	5	3	2																		
MISSISSIPPI RIVER	65	54	10	1																	
MISSOURI RIVER	69	64	5																		
OHIO RIVER	40	29	9	1			1														
POTOMAC RIVER	17	15	2																		
RED RIVER	2	1	1																		
RIO GRANDE	16	14	2																		
SAVANNAH RIVER	9	8	1																		
SNAKE RIVER	8	8																			
TENNESSEE RIVER	7	7																			
U. S. TOTAL	331	289	38	2	1		1														

WATER SOLUABLES

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

FREQUENCY DISTRIBUTION - UPPER CLASS LIMITS

	NO	2	5	8	11	14	17	20	23	26	29	32	35	38	41	44	47	50	53	56	OVR
ARKANSAS RIVER	2				1	1															
COLORADO RIVER	20	1	1	1	4	3	2	2	2			2	1	1							
COLUMBIA RIVER	23	2	11	6		1	1			1			1								
DELAWARE RIVER	12	1	2	3	3	1	1	1													
DETROIT RIVER	10		4	3	3																
LAKE SUPERIOR	11	1	3	3	2	1	1														
LAKE ERIE	11	1	1	3	2		2	2													
HUDSON RIVER	4																				4
MERRIMACK RIVER	5										1	1			1		1				1
MISSISSIPPI RIVER	65	4	3	7	6	2	10	8	7	6	1	2	6	2							1
MISSOURI RIVER	69	4	15	14	9	12	5	1		2	2	2		1							2
OHIO RIVER	40	2	2	1	3	6	2	4	3	4	1	2	1	2	3						4
POTOMAC RIVER	17			1		2	3	1	4	3	2	1									
RED RIVER	2								1								1				
RIO GRANDE	16	1	4	3	3	2	1	1			1										
SAVANNAH RIVER	9					2					2	1		1		1	1				1
SNAKE RIVER	8	1		2	4		1														
TENNESSEE RIVER	7			3	1	2				1											
U. S. TOTAL	331	18	46	50	41	35	29	20	17	17	10	11	9	7	4	1	3				13

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

TOTAL NEUTRALS

FREQUENCY DISTRIBUTION - UPPER CLASS LIMITS

	NO	4	9	14	19	24	29	34	39	44	49	54	59	64	69	74	79	84	89	94	OVR
ARKANSAS RIVER	2								2												
COLORADO RIVER	20		2	3	7	4	1	2	1												
COLUMBIA RIVER	23	2	12	3	3		2						1								
DELAWARE RIVER	12		6	3	1	1		1													
DETROIT RIVER	10		6	3	1																
LAKE SUPERIOR	11	3	8																		
LAKE ERIE	11			2	8					1											
HUDSON RIVER	4									1	1	1									
MERRIMACK RIVER	5								2	1		1									
MISSISSIPPI RIVER	65	1	5	8	14	8	9	2	4	3	3		1	3		1	1	2			
MISSOURI RIVER	69		22	26	9	6	3	2		1											
OHIO RIVER	40				4	1	4	5	4	8	2	3	3	1			1		1		
POTOMAC RIVER	17			6	5	2	3	1													
RED RIVER	2						2														
RIO GRANDE	16			4	3	4		1	1		1	2									
SAVANNAH RIVER	9			2	4		2				1										
SNAKE RIVER	8			2	3	1			1	1											
TENNESSEE RIVER	7			5		1						1									
U. S. TOTAL	331	6	61	67	62	28	26	14	15	16	8	8	5	4		1	2	2	1		

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

ALIPHATICS-NFUTRAL

FREQUENCY DISTRIBUTION - UPPER CLASS LIMITS

	NO	2	5	8	11	14	17	20	23	26	29	32	35	38	41	44	47	50	53	56	OVR
ARKANSAS RIVER	2			2																	
COLORADO RIVER	20	12	7	1																	
COLUMBIA RIVER	23	18	1	2	1			1													
DELAWARE RIVER	12	8	1	2	1																
DETROIT RIVER	10	8	1	1																	
LAKE SUPERIOR	11	11																			
LAKE ERIE	11	7	3	1																	
HUDSON RIVER	4	3	1																		
MERRIMACK RIVER	5			1	3									1							
MISSISSIPPI RIVER	65	43	15	6	1																
MISSOURI RIVER	69	49	19						1												
OHIO RIVER	40	6	9	7	5	6	2	1	2	1						1					
POTOMAC RIVER	17	12	4	1																	
RED RIVER	2	1	1																		
RIO GRANDE	16	2	5	1	2	1	3	1		1											
SAVANNAH RIVER	9	6		3																	
SNAKE RIVER	8	2	3	1	1					1											
TENNESSEE RIVER	7	6					1														
U. S. TOTAL	331	194	70	29	14	7	6	3	3	3				1		1					

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BIL'ION/

AROMATICS-NEUTRAL

FREQUENCY DISTRIBUTION - UPPER CLASS LIMITS

	NO	2	5	8	11	14	17	20	23	26	29	32	35	38	41	44	47	50	53	56	OVR
ARKANSAS RIVER	2			2																	
COLORADO RIVER	20	19	1																		
COLUMBIA RIVER	23	19	3			1															
DELAWARE RIVER	12	9	3																		
DETROIT RIVER	10	10																			
LAKE SUPFRIOR	11	11																			
LAKE FRIF	11	11																			
HUDSON RIVER	4		2	1																	1
MERRIMACK RIVER	5		3	1		1															
MISSISSIPPI RIVER	65	40	14	1	2	1	2	1	1	1			1	1							
MISSOURI RIVFR	69	60	8	1																	
OHIO RIVER	40	4	16	11	3	2	2											1			1
POTOMAC RIVER	17	14	3																		
RED RIVER	2		2																		
RIO GRANDE	16	4	9	2	1																
SAVANNAH RIVER	9	5	4																		
SNAKF RIVER	8	6	1	1																	
TENNESSEE RIVER	7	6		1																	
U. S. TOTAL	331	218	69	21	[illegible]	5	4	1	1	1			1	1				1			2

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

OXYGENATED COMP-N

FREQUENCY DISTRIBUTION - UPPER CLASS LIMITS

	NO	2	5	8	11	14	17	20	23	26	29	32	35	38	41	44	47	50	53	56	OVR
ARKANSAS RIVER	2							2													
COLORADO RIVER	20		1	2	5	6	3		2			1									
COLUMBIA RIVER	23	1	12	4	2	2	1			1											
DELAWARE RIVER	12		2	7	2		1														
DETROIT RIVER	10		3	7																	
LAKE SUPERIOR	11	2	9																		
LAKE ERIE	11			2	2	5	1					1									
HUDSON RIVER	4										1			1		1					1
MERRIMACK RIVER	5								2		1	1									1
MISSISSIPPI RIVER	65	1	2	9	11	5	9	5	8	5	1	4	2	1				1			1
MISSOURI RIVER	69	1	17	18	20	7	3	1	1	1											
OHIO RIVER	40			1	7	6	3	2	3	4	2	3		2		1	3				3
POTOMAC RIVER	17			2	6	4	2	1	2												
RED RIVER	2							2													
RIO GRANDE	16		4	3	3	3	1	1	1												
SAVANNAH RIVER	9			1	3	3	1		1												
SNAKE RIVER	8			2	3	2	1														
TENNESSEE RIVER	7			2	3		1				1										
U. S. TOTAL	331	5	50	60	67	43	27	14	20	11	6	10	2	4		2	3	1			6

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

LOSS-NEUTRALS

FREQUENCY DISTRIBUTION - UPPER CLASS LIMITS

	NO	2	5	8	11	14	17	20	23	26	29	32	35	38	41	44	47	50	53	56	OVR
ARKANSAS RIVER	2		2																		
COLORADO RIVER	20	16	3		1																
COLUMBIA RIVER	23	22	1																		
DELAWARE RIVER	12	11	1																		
DETROIT RIVER	10	10																			
LAKE SUPERIOR	11	11																			
LAKE ERIE	11	10		1																	
HUDSON RIVER	4	1	2				1														
MERRIMACK RIVER	5	2	2	1																	
MISSISSIPPI RIVER	65	36	21	5	2	1															
MISSOURI RIVER	69	62	6	1																	
OHIO RIVER	40	10	16	7	3		2	1													1
POTOMAC RIVER	17	10	7																		
RED RIVER	2	2																			
RIO GRANDE	16	14	1			1															
SAVANNAH RIVER	9	7		1			1														
SNAKE RIVER	8	6	2																		
TENNESSEE RIVER	7	7																			
U. S. TOTAL	331	237	64	16	6	2	4	1													1

WEAK ACIDS

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

FREQUENCY DISTRIBUTION - UPPER CLASS LIMITS

	NO	2	5	8	11	14	17	20	23	26	29	32	35	38	41	44	47	50	53	56	OVR
ARKANSAS RIVER	2				2																
COLORADO RIVER	20	1	9	7	2	1															
COLUMBIA RIVER	23	9	11	1	1	1															
DELAWARE RIVER	12	4	7	1																	
DETROIT RIVER	10	5	5																		
LAKE SUPERIOR	11	9	2																		
LAKE ERIE	11	2	2	4	1	2															
HUDSON RIVER	4							1				2			1						
MERRIMACK RIVER	5					2					1	1									1
MISSISSIPPI RIVER	65	3	18	10	17	6	7	2	1				1								
MISSOURI RIVER	69	17	38	7	5	2															
OHIO RIVER	40	1	3	11	10	3	2	6	2				1			1					
POTOMAC RIVER	17		8	7	2																
RED RIVER	2			1	1																
RIO GRANDE	16	4	3	8		1															
SAVANNAH RIVER	9		2	6		1															
SNAKE RIVER	8	1	4	3																	
TENNESSEE RIVER	7		5	1	1																
U. S. TOTAL	331	56	117	67	42	19	9	9	3		1	3	2		1	1					1

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

STRONG ACIDS

FREQUENCY DISTRIBUTION - UPPER CLASS LIMITS

	NO	2	5	8	11	14	17	20	23	26	29	32	35	38	41	44	47	50	53	56	OVR
ARKANSAS RIVER	2		1	1																	
COLORADO RIVER	20	5	8	5	1		1														
COLUMBIA RIVER	23	17	5			1															
DELAWARE RIVER	12	10	2																		
DETROIT RIVER	10	10																			
LAKE SUPERIOR	11	9	2																		
LAKE ERIE	11	2	7	2																	
HUDSON RIVER	4									1			1	1							1
MERRIMACK RIVER	5			1	2		1		1												
MISSISSIPPI RIVER	64	14	16	19	6	7		1		1											
MISSOURI RIVER	69	33	25	9		1			1												
OHIO RIVER	40	4	15	5	4	5	3	3			1										
POTOMAC RIVER	17	3	7	6	1																
RED RIVER	2				2																
RIO GRANDE	16	10	6																		
SAVANNAH RIVER	9	1	3	3	2																
SNAKE RIVER	8	5	3																		
TENNESSEE RIVER	7	2	4	1																	
U. S. TOTAL	330	125	104	52	18	14	5	4	2	2	1		1	1							1

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

BASES

FREQUENCY DISTRIBUTION - UPPER CLASS LIMITS

	NO	2	5	8	11	14	17	20	23	26	29	32	35	38	41	44	47	50	53	56	OVR
ARKANSAS RIVER	2				2																
COLORADO RIVER	20	1	9	7	2	1															
COLUMBIA RIVER	23	9	11	1	1	1															
DELAWARE RIVER	12	4	7	1																	
DETROIT RIVER	10	5	5																		
LAKE SUPERIOR	11	9	2																		
LAKE ERIE	11	2	2	4	1	2															
HUDSON RIVER	4							1				2			1						
MERRIMACK RIVER	5					2					1	1									1
MISSISSIPPI RIVER	65	3	18	10	17	6	7	2	1				1								
MISSOURI RIVER	69	17	38	7	5	2															
OHIO RIVER	40	1	3	11	10	3	2	6	2				1			1					
POTOMAC RIVER	17		8	7	2																
RED RIVER	2			1	1																
RIO GRANDE	16	4	3	8		1															
SAVANNAH RIVER	9		2	6		1															
SNAKE RIVER	8	1	4	3																	
TENNESSEE RIVER	7		5	1	1																
U. S. TOTAL	331	56	117	67	42	19	9	9	3		1	3	2		1	1					1

ORGANIC CHEMICALS IN SURFACE WATERS 1957 1958
MICROGRAMS PER LITER /PARTS PER BILLION/

CHLOROFORM LOSS

FREQUENCY DISTRIBUTION - UPPER CLASS LIMITS

	NO	2	5	8	11	14	17	20	23	26	29	32	35	38	41	44	47	50	53	56	OVR
ARKANSAS RIVER	2		1	1																	
COLORADO RIVER	20	5	8	5	1		1														
COLUMBIA RIVER	23	17	5			1															
DELAWARE RIVER	12	10	2																		
DETROIT RIVER	10	10																			
LAKE SUPERIOR	11	9	2																		
LAKE ERIE	11	2	7	2																	
HUDSON RIVER	4									1			1	1							1
MERRIMACK RIVER	5			1	2		1		1												
MISSISSIPPI RIVER	64	14	16	19	6	7		1		1											
MISSOURI RIVER	69	33	25	9		1			1												
OHIO RIVER	40	4	15	5	4	5	3	3			1										
POTOMAC RIVER	17	3	7	6	1																
RED RIVER	2				2																
RIO GRANDE	16	10	6																		
SAVANNAH RIVER	9	1	3	3	2																
SNAKE RIVER	8	5	3																		
TENNESSEE RIVER	7	2	4	1																	
U. S. TOTAL	330	125	104	52	18	14	5	4	2	2	1		1	1							1

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADING IN TONS PER DAY OVER SAMPLE PERIOD

STATE ARIZONA
MAJOR BASIN COLORADO RIVER
SUB BASIN LOWER COLORADO RIVER
STATION LOCATION COLORADO RIVER AT YUMA, ARIZONA

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
11	4	7	11	18	4.195	2,829	.379	2.449	.011	.069	.172	.034	.023	.103	.011	.057	.011	.011	.046
12	16	7	1	6	8.494	5,957	1.242	4.715	.115	.138	.483	.069	.046	.299	.069	.161	.046	.023	.276
2	10	8	3	10	6.290	5,491	1.224	4.267	.017	.204	.510	.051	.034	.374	.051	.153	.102	.034	.204
3	31	8	4	10	9.870	3,206	.848	2.358	.026	.185	.291	.026	.026	.238	.000	.106	.053	.026	.159
6	2	8	6	19	3.693	3,210	1.050	2.160	.010	.210	.300	.020	.020	.230	.030	.110	.060	.030	.330
8	6	8	8	18	4.181	1,782	.517	1.265	.000	.143	.176	.000	.011	.140	.022	.044	.022	.011	.121
9	2	8	9	15	3.115	2,890	1.096	1.793	.025	.763	.331	.025	.034	.263	.008	.102	.076	.034	.263

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADING IN TONS PER DAY OVER SAMPLE PERIOD

STATE ARKANSAS

MAJOR BASIN SOUTHWEST-LOWER MISSISSIPPI RIVER

SUB BASIN LOWER MISSISSIPPI-CAIRO TO HELENA

STATION LOCATION MISSISSIPPI RIVER AT WEST MEMPHIS, ARKANSAS

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES					CHLOROFORM EXTRACTABLES								
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLOROFORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGENATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
2	6	8	2	27	441.864	189,687	52.492	137.195	1.193	7.158	33.404	11.930	3.579	14.316	3.579	3.579	2.386	1.184	3.579
4	1	8	4	18	71.611	32,340	12.348	19.992	.392	2.548	3.724	.196	.588	2.548	.392	.980	.784	.196	3.724
5	8	8	5	19	99.917	36,990	10.260	26.730	.270	1.620	4.590	.540	.540	2.970	.540	1.350	.540	.270	1.620
6	2	8	6	13	302.250	87,312	33.456	53.856	.816	7.344	15.504	1.632	3.264	8.160	2.448	4.896	1.632	.816	2.448
6	30	8	7	7	463.875	105,168	38.812	66.356	1.252	7.512	12.520	1.252	1.252	8.764	1.252	5.008	2.504	.000	10.016
9	9	8	9	15	246.714	78,588	27.306	51.282	.666	5.994	7.992	1.332	1.332	4.662	.666	3.330	1.998	.666	6.660

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STATE CALIFORNIA

MAJOR BASIN COLORADO RIVER

SUB BASIN LOWER COLORADO RIVER

STATION LOCATION COLORADO RIVER ABOVE PARKER DAM, ARIZONA-CALIFORNIA

STREAM LOADING IN TONS PER DAY OVER SAMPLE PERIOD

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
1	1	8	1	8	23.900	15,738	3.998	11.739	.258	.709	1.161	.258	.064	.709	.129	.322	.193	.064	1.290
1	22	8	1	28	20.686	8,904	2.072	6.832	.112	.560	.504	.112	.056-	.392	.056-	.168	.112	.056	.560
2	18	8	2	26	10.778	8,613	2.262	6.351	.145	.638	.638	.058	.029	.493	.058	.145	.174	.058	.464
3	19	8	3	26	22.212	12,540	3.780	8.760	.060	1.020	1.320	.180	.120	.900	.120	.420	.240	.120	.600
4	14	8	4	24	22.564	16,409	3.355	13.054	.000	.915	1.708	.183	.122	.732	.671	.427	.244	.061	.000
5	8	8	5	17	14.660	8,097	2.054	6.043	.039	.474	.671	.039	.039	.513	.079	.039	.118	.039	.671
6	10	8	6	18	14.467	8,268	2.067	6.201	.117	.546	.585	.039	.039	.468	.039	.195	.156	.078	.390
7	9	8	7	19	15.118	4,633	1.681	2.952	.041	.369	.410	.000	.041	.328	.041	.164	.164	.041	.492
8	6	8	8	18	14.692	7,663	2.883	4.779	.039	.790	.790	.039	.079	.632	.039	.237	.237	.039	.750
9	3	8	9	15	12.123	6,695	2.405	4.290	.130	.520	.422	.032	.065	.325	.000	.162	.162	.032	.975

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STATE COLORADO

MAJOR BASIN COLORADO RIVER

SUB BASIN UPPER COLORADO RIVER

STATION LOCATION COLORADO RIVER AT LOMA, COLORADO

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES											
BEGINNING			END								NEUTRALS									
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS

N O R E S U L T S A V A I L A B L E

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

STATE GEORGIA

MAJOR BASIN SOUTHEAST

SUB BASIN SAVANNAH RIVER

STATION LOCATION SAVANNAH RIVER AT PORT WENTWORTH, GEORGIA

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES											
BEGINNING			END								NEUTRALS									
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
3	11	8	3	21	19,745	23.219	10.379	12.840	1.070	1.712	2.621	.428	.214	1.123	.856	.642	.535	.053	3.745
4	7	8	4	21	25,200	29.716	23.188	6.528	-	-	-	-	-	-	-	-	-	-	-
5	12	8	5	26	16,667	15.480	-	-	-	-	-	-	-	-	-	-	-	-	-
6	9	8	6	18	8,634	3.243	2.491	.752	-	-	-	-	-	-	-	-	-	-	-
7	1	8	7	10	8,708	6.016	2.702	3.313	.423	.470	.376	.047	.070	.211	.047	.164	.211	.070	.987

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STATE: IDAHO

MAJOR BASIN: PACIFIC NORTHWEST

SUB BASIN: CENTRAL SNAKE RIVER

STATION LOCATION: SNAKE RIVER AT WEISER, IDAHO

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
12	9	8	12	20	14,258	13.860	2.541	11.319	.000	.385	1.694	1.001	.192	.423	.077	.038	.038	.038	.346
1	13	8	1	23	14,136	5.206	1.406	3.800	.114	.304	.494	.114	.076	.266	.038	.152	.038	.038	.266
2	3	8	2	12	16,870	9.646	1.820	7.826	.000	.273	1.092	.252	.091	.591	.136	.273	.091	.091	.045-
3	3	8	3	19	20,035	9.720	2.322	7.398	.054	.648	.702	.162	.054	.432	.054	.162	.108	.054	.486
4	7	8	4	15	31,078	12.768	4.284	8.484	.084	.924	1.260	.252	.084	.840	.084	.420	.252	.084	1.260
6	15	8	7	8	16,992	7.866	2.392	5.474	.046	.644	.782	.092	.092	.460	.138	.276	.184	.046	.414

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

STATE	ILLINOIS
MAJOR BASIN	OHIO RIVER
SUB BASIN	OHIO RIVER-MAIN STEM & MINOR TRIB.
STATION LOCATION	OHIO RIVER AT CAIRO, ILLINOIS

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES					CHLOROFORM EXTRACTABLES								
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLOROFORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGENATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
4	7	8	4	26	393,250	260.190	86.022	174.168	1.062	14.868	43.542	16.992	5.310	15.930	5.310	8.496	4.248	1.062	12.744
5	5	8	5	27	228,130	105.336	49.280	56.056	1.232	8.008	20.944	7.392	3.080	7.392	3.080	4.312	2.464	.616	11.704
6	17	8	6	23	300,428	208.427	76.234	132.193	4.866	13.787	25.952	2.433	2.433	14.598	6.488	7.299	6.488	1.622	16.220
6	30	8	7	20	234,266	112.585	43.010	69.575	1.897	7.590	11.385	1.265	1.265	5.692	3.162	3.795	3.162	.632	14.547
8	5	8	8	18	395,714	207.289	94.028	113.261	4.274	21.370	20.301	1.068	2.137	16.027	1.068	9.616	9.616	1.068	27.781

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

STATE ILLINOIS

MAJOR BASIN UPPER MISSISSIPPI RIVER

SUB BASIN MISSISSIPPI RIVER-ST. LOUIS AREA

STATION LOCATION MISSISSIPPI RIVER AT EAST ST. LOUIS, ILLINOIS

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES					CHLOROFORM EXTRACTABLES								
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
12	24	7	1	6	69,593	70.312	17.108	53.204	.188	2.820	7.708	1.128	.752	5.452	.376	1.880	-	.376	4.136
1	6	8	1	16	51,245	43.766	15.373	28.392	.415	4.016	5.817	1.108	.554	3.324	.831	1.662	.415	.277	2.770
3	26	8	4	14	70,635	52.006	20.383	31.623	1.143	3.810	5.143	.381	.190	4.000	.571	1.714	1.333	.381	6.858
5	5	8	5	19	66,167	29.988	14.101	15.886	.178	2.677	3.748	.178	.357	3.034	.178	1.606	1.249	.178	4.462
6	2	8	6	16	102,013	80.721	23.142	57.579	.275	4.132	7.438	.275	.551	5.510	1.102	2.755	2.204	.551	5.785
7	7	8	7	21	144,073	88.303	36.177	52.126	1.556	7.780	7.002	.389	.389	5.446	.778	2.723	3.112	.389	13.615
8	4	8	8	15	92,467	56.387	21.207	35.179	.748	4.740	4.451	.249	.499	3.742	.000	2.245	2.495	.249	6.237
9	2	8	9	15	43,471	30.315	11.750	18.565	.352	3.290	2.820	.117	.235	2.467	.000	1.292	1.410	.352	2.232

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

STATE	INDIANA
MAJOR BASIN	OHIO RIVER-MAIN STEM & MINOR TRIB.
SUB BASIN	OHIO RIVER
STATION LOCATION	OHIO RIVER AT EVANSVILLE, INDIANA

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGENATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
1	31	8	2	7	243,125	87.904	37.392	50.512	.656	2.624	28.208	14.432	4.592	7.216	1.968	1.312	.656	.656	3.280
2	26	8	3	6	130,656	105.900	33.535	72.365	1.412	3.883	14.473	7.413	2.118	3.530	1.412	2.471	1.412	.706	9.178
4	7	8	4	21	272,067	193.173	66.839	126.334	.734	8.814	30.849	7.345	3.672	12.486	7.345	4.407	2.203	.734	19.097
5	5	8	5	26	405,545	317.550	134.685	282.865	2.190	27.375	40.515	4.380	6.570	24.090	5.475	13.140	9.855	1.095	40.515

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

STATE IOWA

MAJOR BASIN UPPER MISSISSIPPI RIVER

SUB BASIN MISSISSIPPI-DES MOINES-SKUNK RIVERS

STATION LOCATION MISSISSIPPI RIVER AT BURLINGTON, IOWA

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
10	28	7	11	10	30,436	16.400	2.788	13.612	.082-	.082	1.558	.328	.246	.820	.164	.246	.492	.328	.082
12	2	7	12	10	29,522	12.799	2.146	10.653	.079-	.636	.715	.079	.079	.477	.079	.159	.079	.079	.477
1	6	8	1	13	29,462	12.958	3.498	9.456	.238	.874	1.113	.159	.079	.795	.079	.318	.159	.079	.715
2	3	8	2	10	25,875	9.380	1.610	7.770	.070	.420	.420	.070	.070	.280	.070-	.070	.070	.070	.490
3	3	8	3	10	64,937	44.928	13.513	31.414	.157	2.632	5.089	.175	.351	4.036	.526	1.930	1.228	.175	2.281
4	7	8	4	18	65,733	42.245	14.200	28.045	.177	2.662	6.390	.532	.355	4.615	.887	1.775	.887	.710	1.597
5	5	8	5	15	38,754	24.871	10.032	14.839	.209	2.717	2.717	.209	.104	1.881	.522	1.045	.622	.209	2.508
6	2	8	6	9	43,750	23.954	7.316	16.638	.118	1.534	1.770	.118	.118	1.298	.236	.708	.472	.118	2.596
7	8	8	7	13	60,300	36.838	14.344	22.494	.652	3.260	2.445	.163	.326	1.956	.000	1.141	1.141	.326	5.379
8	4	8	8	10	28,628	14.784	6.083	8.701	.385	1.386	1.617	.077	.154	1.232	.154	.693	.462	.154	1.386
9	1	8	9	11	27,354	19.240	7.918	11.322	.370	1.850	1.554	.000	.222	1.184	.148	.814	.740	.370	2.220

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STATE	IOWA
MAJOR BASIN	UPPER MISSISSIPPI RIVER
SUB BASIN	MISSISSIPPI-WAPSIPINICON & TRIB.
STATION LOCATION	MISSISSIPPI RIVER AT DUBUQUE, IOWA (SEE NOTE)

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

NOTE: Results may be influenced by retention in lock structure. Sampling site being changed.

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
12	2	7	12	10	18,200	39.641	6.027	33.614	.343	1.666	2.793	.392	.735	1.519	.147	.686	.343	.196	.049-
1	6	8	1	15	15,470	10.122	3.696	6.426	1.176	.588	.672	.168	.042	.420	.042	.210	.168	.042	.840
2	3	8	2	13	15,354	11.412	2.365	9.047	.124	.664	.622	.124	.083	.415	.041-	.166	.083	.041	.664
4	7	8	4	16	48,320	105.444	42.934	62.509	1.435	9.135	10.831	.391	.391	8.613	1.435	4.567	3.393	1.044	12.528
5	5	8	5	14	23,910	16.770	4.902	11.868	.064	1.225	1.419	.064	.064	1.032	.258	.774	.258	.129	1.032
6	2	8	6	11	38,000	28.495	9.840	18.655	.512	2.562	2.152	.102	.102	1.640	.307	1.025	1.025	.102	2.460
7	7	8	7	15	44,022	44.030	18.326	25.704	1.309	2.021	3.094	.119	.238	2.380	.357	1.071	1.666	.238	3.927
8	4	8	8	14	14,964	6.399	2.389	4.009	.081	.486	.607	.000	.081	.445	.081	.243	.202	.040	.729
9	2	8	9	11	19,060	14.523	4.272	10.248	.103	1.236	1.030	.103	.103	.824	.000	.515	.360	.103	.927

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

STATE	KANSAS
MAJOR BASIN	SOUTHWEST-LOWER MISSISSIPPI RIVER
SUB BASIN	ARK. RIVER, KANS-COLO LINE TO TULSA
STATION LOCATION	ARKANSAS RIVER AT COOLIDGE, KANSAS

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS

NO RESULTS AVAILABLE

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

STATE KANSAS

MAJOR BASIN MISSOURI RIVER

SUB BASIN LOWER MISSOURI RIVER

STATION LOCATION MISSOURI RIVER AT KANSAS CITY, KANSAS

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
11	4	7	11	20	27,147	10.585	1.679	8.906	.073	.146	.657	.219	.073	.292	.073	.219	.146	.292	.146
12	6	7	12	23	17,678	7.790	.902	6.887	.000	.142	.475	.095	.047	.237	.095	.047	.047	.047	.142
1	6	8	1	20	15,619	6.678	1.176	5.502	.042	.210	.546	.126	.084	.336	.042-	.126	.042	.042	.168
2	3	8	2	24	13,777	15.873	3.996	11.877	.074	.999	1.221	.148	.148	.777	.148	.333	.259	.074	1.036
3	24	8	3	31	31,812	14.448	3.354	11.094	.086	.860	1.290	.258	.086	.860	.086	.258	.172	.086	.602
4	14	8	4	24	42,500	26.565	4.945	21.620	.000	1.035	2.185	.230	.115	1.725	.115	.575	.345	.115	.690
5	12	8	5	20	42,722	21.021	4.620	16.401	.000	.462	2.425	.346	.231	1.617	.231	.577	.231	.115	.808
6	5	8	6	10	41,283	15.498	4.237	11.261	.000	.892	1.449	.223	.111	1.003	.111	.334	.111	.111	1.338
7	14	8	7	25	106,100	47.559	20.341	27.217	.286	4.870	6.303	.859	1.432	3.724	.286	1.719	1.719	.573	4.870
8	4	8	8	15	65,458	23.827	10.943	12.884	.706	2.824	2.471	.176	.529	1.588	.176	.882	1.059	.176	2.824
8	25	8	9	8	52,460	20.800	5.801	14.999	.000	1.556	1.556	.141	.141	.990	.283	.707	.424	.141	1.415
9	25	8	10	4	46,020	9.796	2.976	6.820	.000	.868	.992	.124	.124	.620	.124	.248	.124	.000	.744

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

STATE: LOUISIANA

MAJOR BASIN: SOUTHWEST-LOWER MISSISSIPPI RIVER

SUB BASIN: LOWER RED RIVER BELOW DENISON

STATION LOCATION: RED RIVER AT ALEXANDRIA, LOUISIANA

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES					CHLOROFORM EXTRACTABLES								
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS

N O R E S U L T S A V A I L A B L E

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

STATE: LOUISIANA
MAJOR BASIN: SOUTHWEST-LOWER MISSISSIPPI RIVER
SUB BASIN: LOWER MISSISSIPPI-NATCHEZ TO GULF
STATION LOCATION: MISSISSIPPI RIVER AT NEW ORLEANS, LOUISIANA

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES											
BEGINNING			END								NEUTRALS									
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
4	24	8	5	2	586,444	177.352	64.923	112.428	1.583	14.251	25.336	6.334	1.583	12.668	4.750	6.334	3.167	1.583	12.668
5	29	8	6	10	705,308	323.765	135.219	188.545	3.809	28.567	32.376	1.904	3.809	24.758	1.904	11.427	9.522	1.904	47.612
6	26	8	7	6	534,818	166.060	47.652	118.408	1.444	10.108	14.440	.000	1.444	10.108	2.888	5.776	4.332	1.444	10.108
7	24	8	7	27	601,000	170.100	51.840	18.260	.000	12.960	14.580	1.620	1.620	9.720	1.620	4.860	3.240	1.620	14.580
8	4	8	8	14	736,000	210.622	97.363	113.259	7.948	19.870	25.831	.000	3.974	19.870	1.987	11.922	7.948	1.986	21.857
9	19	8	10	8	324,250	92.803	38.522	54.281	1.751	7.004	9.630	.000	.875	7.004	1.751	3.502	3.502	.000	13.132

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STATE MARYLAND
MAJOR BASIN NORTH ATLANTIC
SUB BASIN POTOMAC RIVER
STATION LOCATION POTOMAC RIVER AT GREAT FALLS, MARYLAND

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES											
BEGINNING			END								NEUTRALS									
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
10	14	7	10	28	2,055	1.155	.346	.808	.005	.055	.176	.027	.016	.160	.016	.027	.022	.016	.044
12	2	7	12	11	5,396	2.958	.739	2.218	.014	.159	.261	.043	.029	.174	.014	.058	.029	.014	.203
1	6	8	1	15	8,389	5.085	.900	4.185	.022	.202	1.012	.045	.022	.157	.022	.090	.045	.022	.270
2	3	8	2	12	13,760	7.511	1.776	5.735	.074	.444	.481	.111	.037	.333	.037-	.111	.074	.037	.592
3	3	8	3	12	21,460	12.586	3.944	8.642	.406	.928	.754	.116	.058	.580	.058-	.232	.232	.058	1.334
4	7	8	4	16	33,320	13.680	5.220	8.460	.180	1.260	1.170	.090	.090	.900	.090	.360	.270	.090	1.890
5	5	8	5	16	42,667	22.425	7.015	15.410	.460	1.265	1.380	.115	.115	.920	.230	.575	.460	.000	2.870
6	2	8	6	13	5,719	2.573	.775	1.798	.015	.155	.201	.015	.015	.155	.015	.093	.062	.015	.232
7	7	8	7	18	6,424	3.465	1.347	2.117	.070	.315	.297	.017	.035	.192	.052	.122	.140	.017	.385
8	4	8	8	13	8,134	4.862	2.068	2.794	.110	.506	.484	.022	.044	.352	.066	.220	.176	.022	.550
9	3	8	9	15	2,435	1.358	.637	.721	.032	.136	.162	.000	.019	.123	.019	.058	.058	.013	.175

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

STATE MARYLAND

MAJOR BASIN NORTH ATLANTIC

SUB BASIN POTOMAC RIVER

STATION LOCATION POTOMAC RIVER AT WILLIAMSPORT, MARYLAND

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS

N O F L O W D A T A A V A I L A B L E

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WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

STATE: MASSACHUSETTS
MAJOR BASIN: NORTHEAST
SUB BASIN: MERRIMAC RIVER
STATION LOCATION: MERRIMAC RIVER ABOVE LOWELL, MASSACHUSETTS

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
2	20	8	3	11	9,288	7.050	3.250	3.800	.100	.500	.875	.175	.100	.525	.075	.750	.225	.025	.775
3	28	8	4	7	19,182	17.108	10.296	6.812	.416	1.872	2.028	.520	.208	1.144	.156	1.456	.780	.104	3.640
4	21	8	5	9	26,258	56.019	23.785	32.234	1.613	4.260	8.591	2.698	.923	4.402	.568	4.260	1.633	.213	3.195
6	11	8	6	18	4,076	3.366	1.441	1.925	.044	.187	.550	.110	.088	.330	.022	.143	.066	.033	.429
7	7	8	10	6															

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

STATE MICHIGAN

MAJOR BASIN WESTERN GREAT LAKES

SUB BASIN ST. CLAIR-DETROIT RIVERS

STATION LOCATION DETROIT RIVER AT DETROIT, MICHIGAN

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS

FLOW DATA NOT APPLICABLE

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STATE MINNESOTA

MAJOR BASIN WESTERN GREAT LAKES

SUB BASIN LAKE SUPERIOR

STATION LOCATION LAKE SUPERIOR AT DULUTH, MINNESOTA

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS

FLOW DATA NOT APPLICABLE

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

STATE MINNESOTA

MAJOR BASIN UPPER MISSISSIPPI RIVER

SUB BASIN UPPER PORTION UPPER MISSISSIPPI

STATION LOCATION MISSISSIPPI RIVER LOCK DAM #3 BELOW MINNEAPOLIS, MINNESOTA

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLOROFORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGENATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
1	6	8	1	13	8,276	8.190	2.025	6.165	.022	.495	.810	.135	.090	.585	.022-	.202	.090	.067	.337
2	4	8	2	10	7,887	8.085	2.352	5.733	.105	.483	.756	.084	.063	.483	.126	.168	.126	.021	.693
3	4	8	3	10	11,871	14.080	3.744	10.336	.064	.832	1.536	.160	.064	1.088	.224	.256	.224	.064	.704
4	1	8	4	8	17,925	28.227	5.965	22.266	.097	1.406	1.988	.194	.145	1.164	.485	1.115	.339	.242	.776
5	5	8	5	13	14,233	10.318	2.849	7.469	.038	.731	1.001	.077	.077	.654x	.192	.231	.115	.077	.654
6	2	8	6	10	14,531	9.711	3.393	6.318	.078	.780	.897	.117	.078	.624	.078	.351	.273	.039	.975
7	1	8	7	8	20,145	16.895	5.940	10.954	.381	1.308	1.798	.109	.327	1.253	.109	.763	.708	.054	.926
8	5	8	8	8	8,955	6.624	2.328	4.296	.072	.552	.624	.048	.072	.432	.072	.384	.216	.048	.432
9	3	8	9	9	10,023	10.098	3.672	6.426	.108	.891	.837	.027	.104	.621	.081	.378	.378	.081	.999

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STATE MISSISSIPPI

MAJOR BASIN SOUTHWEST-LOWER MISSISSIPPI RIVER

SUB BASIN LOWER MISSISSIPPI-YAZOO RIVERS

STATION LOCATION MISSISSIPPI RIVER AT VICKSBURG, MISSISSIPPI (SEE NOTE)

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

NOTE: Results may be influenced by discharge from Yazoo River.

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
12	9	7	1	2	404,167	276.023	66.551	209.472	-	-	-	-	-	-	-	-	-	-	-
1	13	8	2	11	262,345	145.242	41.801	103.441	.708	8.502	9.919	1.417	.708	7.085	.708	3.542	2.834	.708	15.587
2	24	8	3	17	505,364	286.545	55.944	230.600	1.364	10.916	20.467	4.093	1.364	13.645	1.364	5.458	2.729	1.364	13.645
4	7	8	4	28	797,432	245.442	55.978	189.464	2.153	8.612	21.530	4.306	2.153	15.071	.000	6.459	4.306	2.153	10.765
5	19	8	6	16	811,621	216.958	103.000	113.958	6.574	24.106	17.532	2.191	2.191	13.149	.000	10.957	13.149	2.191	28.489
7	19	8	8	4	852,765	158.872	62.167	96.705	.000	13.815	18.420	2.302	2.302	11.512	2.302	6.907	4.605	2.302	16.117
9	8	8	9	29	346,000	44.832	9.340	35.492	.000	1.868	3.736	.934	.934	1.868	.000	.934	.934	.934	.934

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STATE: MISSOURI
MAJOR BASIN: UPPER MISSISSIPPI RIVER
SUB BASIN: MISSISSIPPI-CAPE GIRARDEAU AREA
STATION LOCATION: MISSISSIPPI RIVER AT CAPE GIRARDEAU, MISSOURI

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

Date of Sample: Beginning			Date of Sample: End		Average Flow cfs	Extractables					Chloroform Extractables								
											Neutrals								
Month	Day	Year	Month	Day		Total	Chloroform	Alcohol	Ether Insolubles	Water Solubles	Total	Aliphatics	Aromatics	Oxygenated Compounds	Loss	Weak Acids	Strong Acids	Bases	Loss
1	13	8	1	20	77,050	49.920	19.760	30.160	.208	3.120	9.776	1.456	2.288	5.408	.624	2.080	.832	.624	3.120
2	3	8	2	17	81,700	73.426	29.106	44.320	.441	3.528	13.671	1.543	3.969	6.835	1.323	3.528	1.543	.220	6.174
3	3	8	3	17	261,400	367.826	96.722	271.104	.706	19.062	56.480	2.824	11.296	33.888	8.472	12.002	6.354	1.412	.706
3	31	8	4	14	188,667	211.952	76.934	135.017	1.019	15.794	32.608	1.528	11.718	17.323	2.038	8.661	7.133	1.019	10.699
5	5	8	5	19	200,200	243.225	74.589	268.636	.000	10.810	37.835	1.081	14.053	19.998	2.702	9.188	3.783	.540	12.431
6	2	8	6	16	158,453	112.136	39.804	72.332	.428	4.708	11.984	1.712	1.712	8.132	.428	5.564	2.996	.428	13.696
7	7	8	7	20	284,714	215.948	76.850	139.098	1.537	13.064	29.971	1.537	9.222	16.138	3.074	12.296	6.916	1.537	11.527
8	4	8	8	18	338,133	238.293	146.080	92.213	7.304	29.216	43.824	4.565	8.217	27.390	3.652	17.347	16.434	1.826	30.129
9	2	8	9	13	109,909	114.266	53.757	58.509	.594	9.207	23.166	.594	10.989	9.207	2.376	5.940	4.158	.594	10.098
9	29	8	10	13	128,000	115.742	46.642	69.100	1.036	7.601	21.421	.345	12.092	7.255	1.727	5.528	4.146	1.036	5.873

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STATE MISSOURI

MAJOR BASIN MISSOURI RIVER

SUB BASIN LOWER MISSOURI BELOW NIOBRARA RIVER

STATION LOCATION MISSOURI RIVER AT ST. JOSEPH, MISSOURI

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLOROFORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGENATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
1	2	8	1	14	11,709	4.221	.945	3.276	.031-	.220	.378	.063	.031	.220	.063	.189	.094	.031	.031
2	5	8	2	13	12,544	6.936	2.346	4.590	.068	.340	1.394	.714	.102	.306	.204	.170	.068	.034	.272
3	4	8	3	9	27,200	24.255	6.468	17.787	.147	1.837	1.837	.294	.514	1.029	.000	.735	.588	.220	.955
3	30	8	4	15	36,482	21.177	8.372	12.805	.197	2.561	1.576	.098	.098	1.063	.295	.591	.788	.197	2.462
5	12	8	5	26	35,773	10.422	4.825	5.597	.096	.965	1.640	.482	.096	.868	.193	.386	.386	.096	1.254
6	11	8	6	17	40,228	38.734	8.897	29.837	.108	2.387	1.736	.325	.108	1.193	.108	.868	.759	.325	2.712
7	14	8	7	19	48,000	56.721	29.526	27.195	2.719	6.734	3.496	.647	.388	2.072	.388	1.813	2.978	.259	11.525
8	11	8	8	25	36,953	13.400	4.000	9.400	.100	1.100	1.300	.100	.200	1.000	.000	.400	.300	.100	.700
9	9	8	9	21	42,562	10.695	3.220	7.475	.460	.805	.690	.115	.115	.460	.000	.230	.230	.115	.690

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

STATE	MISSOURI
MAJOR BASIN	MISSOURI RIVER
SUB BASIN	LOWER MISSOURI RIVER
STATION LOCATION	MISSOURI RIVER M36 AT ST. LOUIS, MISSOURI

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
10	14	7	10	29	54,575	25.370	5.015	20.355	.295	.737	2.950	.737	.295	1.622	.295	.295	.590	.147	.147-
11	18	7	12	5	30,517	10.065	1.237	8.832	.000	.165	.660	.165	.082	.412	.082-	.082	.082-	.082	.247
12	19	7	1	9	39,659	18.832	5.457	13.375	.107	1.284	1.819	.214	.214	1.284	.107	.428	.321	.107	1.391
3	17	8	3	31	83,373	30.150	5.850	24.300	.225	1.350	2.025	.225	.225	1.575	.225-	.675	.225	.225	1.125
4	28	8	5	12	90,707	50.960	16.660	34.300	.980	3.430	1.960	.245	.245	1.715	.000	.980	1.225	.245	7.595
5	26	8	6	9	53,187	13.776	3.157	10.619	.000	.574	1.148	.143	.143	.861	.000	.287	.143	.000	1.004
6	23	8	7	7	70,300	18.050	4.180	13.870	.000	1.140	1.330	.190	.190	.950	.000	.380	.190	.190	.950

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STATE NEBRASKA

MAJOR BASIN MISSOURI RIVER

SUB BASIN LOWER MISSOURI RIVER

STATION LOCATION MISSOURI RIVER M642 AT OMAHA, NEBRASKA

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLOROFORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGENATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
10	26	7	11	5	21,673	10.705	2.632	8.073	.058	.994	.526	.117	.058	.351	.058-	.292	.292	.175	.292
11	25	7	12	5	10,373	4.312	.644	3.668	.056	.140	.140	.028-	.028	.084	.028	.168	.084	.028-	.056
12	25	7	1	5	8,020	3.440	.623	2.816	.021	.129	.107	.021	.021	.064	.000	.043	.021	.021	.279
1	25	8	2	6	9,275	4.000	.725	3.275	.025	.150	.125	.025	.025	.075	.000	.050	.025	.025	.325
3	4	8	3	17	12,250	5.379	1.188	4.191	.033	.297	.297	.033	.033-	.231	.033	.066	.066	.033	.396
3	31	8	4	14	23,293	12.096	2.996	9.135	.063	.756	.693	.063	.063	.567	.063-	.189	.252	.063	.945
4	28	8	5	12	25,880	5.980	2.240	9.240	.000	.560	.840	.070	.070	.630	.070	.210	.140	.070	.420
5	26	8	6	9	28,933	11.856	2.652	9.204	.000	.780	.858	.078	.078	.624	.078	.234	.156	.078	.546
6	23	8	7	7	27,527	11.175	2.534	8.642	.000	.670	.745	.074	.000	.596	.074	.223	.149	.074	.670
7	21	8	8	4	24,947	9.922	4.995	4.927	.472	1.080	.675	.067	.067	.472	.067	.337	.472	.067	1.890
8	18	8	9	1	28,120	12.996	4.180	8.816	.152	1.216	.912	.076	.076	.684	.076	.380	.380	.076	1.064
9	15	8	9	29	28,453	12.551	3.773	3.778	.077	1.155	1.001	.154	.154	.693	.000	.308	.308	.077	.847

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STATE NEVADA

MAJOR BASIN COLORADO RIVER

SUB BASIN LOWER COLORADO RIVER

STATION LOCATION COLORADO RIVER NEAR BOULDER CITY, NEVADA

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
7	18	8	7	30	14,104	8.550	4.446	4.104	.342	1.064	.684	.076	.076	.494	.038	.266	.608	.038	1.444
8	11	8	8	23	15,285	7.968	2.946	5.021	.166	.581	.747	.249	.083	.539	.041	.249	.249	.041	.871
9	12	8	9	22	12,841	6.037	1.966	4.071	.103	.483	.241	.034	.034	.172	.000	.207	.172	.009	.724

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

STATE NEW YORK
MAJOR BASIN NORTHEAST
SUB BASIN LAKE ERIE-NIAGARA
STATION LOCATION LAKE ERIE AT BUFFALO, NEW YORK

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES					CHLOROFORM EXTRACTABLES								
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
								FLOW DATA NOT APPLICABLE											

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

STATE	NEW YORK
MAJOR BASIN	NORTHEAST
SUB BASIN	LOWER HUDSON RIVER
STATION LOCATION	HUDSON RIVER BELOW POUGHKEEPSIE, NEW YORK

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
6	3	8	6	16	13,034	45.650	19.530	25.620	.770	3.885	8.190	.175	2.800	4.655	.560	1.365	2.730	.385	2.205
7	7	8	7	10	6,119	9.058	3.234	5.824	.165	.676	.676	.033	.115	.478	.049	.297	.396	.066	.957
8	4	8	8	11	5,125	9.733	3.430	3.808	.140	.756	.658	.028	.070	.532	.028	.448	.476	.028	.924
9	1	8	9	10	4,242	7.187	3.496	3.691	.103	.736	.598	.023	.034	.494	.046	.345	.414	.034	1.265

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STATE: NORTH DAKOTA

MAJOR BASIN: MISSOURI RIVER

SUB BASIN: MISSOURI-SOURIS RIVERS

STATION LOCATION: MISSOURI RIVER M1377.4 AT BISMARK, NORTH DAKOTA

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
2	17	8	4	1	14,829	6.480	1.400	5.080	.040	.200	.760	.200	.080	.400	.080	.120	.040	.040	.200
4	14	8	5	13	19,933	6.426	1.620	4.806	.000	.486	.648	.108	.054	.486	.000	.162	.054	.054	.216
5	27	8	6	16	25,981	14.210	3.990	10.220	.070	1.190	1.400	.260	.140	.840	.140	.350	.210	.070	.700
7	22	8	8	15	8,784	7.191	1.151	6.039	.023	.282	.470	.070	.070	.282	.047	.094	.070	.023	.188
8	28	8	9	16	30,185	5.705	1.548	4.156	.000	.489	.407	.081	.081	.244	.000	.163	.163	.081	.244

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STATE NORTH DAKOTA
MAJOR BASIN MISSOURI RIVER
SUB BASIN MISSOURI-SOURIS RIVERS
STATION LOCATION MISSOURI RIVER AT WILLISTON, NORTH DAKOTA

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGENATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
11	11	7	11	22	13,533	8.358	1.022	7.336	.109	.146	.365	.109	.073	.182	.036	.146	.109	.036	.146
12	13	7	12	18	11,683	6.898	.945	5.953	-	-	-	-	-	-	-	-	-	-	-
1	6	8	1	17	12,358	9.112	5.494	3.618	.804	1.172	.435	.067	.134	.201	.033	.469	.402	.033	2.177
2	4	8	2	14	10,709	8.787	1.624	7.163	.058	.464	.464	.116	.029	.261	.058	.174	.087	.029	.348
3	3	8	3	14	14,242	9.240	1.809	7.430	.038	.462	.654	.077	.038	.462	.077	.154	.077	.038	.385
4	7	8	4	18	17,350	13.489	5.264	8.225	.047	1.269	1.410	.141	.094	1.128	.047	.470	.235	.094	1.739
5	5	8	5	20	16,375	12.232	3.872	8.360	.088	1.144	1.188	.132	.088	.880	.088	.440	.362	.088	.572
6	11	8	6	20	35,920	10.573	2.716	7.857	.047	.679	.776	.097	.097	.582	.000	.291	.194	.097	.582
7	9	8	7	21	19,723	7.632	2.173	5.459	.053	.583	.530	.053	.053	.371	.053	.159	.159	.000	.689
8	6	8	8	20	14,793	5.320	1.520	3.800	.040	.440	.400	.040	.040	.320	.000	.120	.120	.040	.360
9	3	8	9	23	13,886	2.550	.675	1.875	.037	.187	.187	.000	.037	.150	.000	.037	.037	.000	.187

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

STATE	OHIO
MAJOR BASIN	OHIO RIVER
SUB BASIN	OHIO RIVER-MAIN STREAM & MINOR TRIB.
STATION LOCATION	OHIO RIVER M510 AT CINCINNATI, OHIO

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES					CHLOROFORM EXTRACTABLES								
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
12	21	7	12	30	213,000	797.525	86.300	611.225	8.625	32.200	90.850	25.300	8.625	45.425	11.500	25.300	16.675	8.625	4.025
1	15	8	1	30	138,988	406.875	102.750	304.125	2.250	16.875	18.875	6.750	6.000	25.125	6.000	8.625	4.875	1.125	25.125
2	12	8	2	27	70,594	154.686	73.723	80.962	2.667	12.954	48.577	4.952	9.144	19.621	14.859	6.286	3.619	1.524	.190-
3	12	8	3	24	95,885	118.363	53.613	64.750	1.813	11.655	22.015	2.849	3.108	11.914	4.144	4.662	3.367	.777	9.324
4	2	8	4	15	224,071	191.785	63.525	128.260	.605	12.100	26.015	4.840	3.630	13.310	4.235	5.445	3.025	.605	15.730
5	14	8	5	31	143,139	185.906	80.778	5.128	.773	15.460	29.760	5.024	4.638	17.779	2.319	6.570	3.092	1.546	23.576
7	2	8	7	14	54,154	41.026	23.506	17.520	.730	4.234	7.592	.584	.584	5.256	1.168	3.066	2.336	.438	5.110
8	6	8	8	19	153,514	143.831	60.517	83.314	.414	12.849	16.994	2.072	2.901	10.362	1.658	7.875	4.974	.414	16.994
9	3	8	9	11	35,856	45.396	18.042	27.354	.194	1.843	5.917	.485	.485	4.462	.485	1.940	1.261	.388	6.499

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STATE: OHIO

MAJOR BASIN: OHIO RIVER

SUB BASIN: OHIO RIVER-MAIN STEM & MINOR TRIB.

STATION LOCATION: OHIO RIVER AT EAST LIVERPOOL, OHIO

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

DATE OF SAMPLE: BEGINNING			END		AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
											NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
10	4	7	11	21	6,212	2.652	.816	1.836	.017	.153	.374	.102	.068	.187	.017	.119	.085	.017-	.068
12	3	7	12	30	46,826	14.041	4.427	9.614	.126	.000	2.403	.885	.506	.885	.126	.379	.126	.126	1.265
1	6	8	1	28	28,096	12.996	5.497	7.524	.152	.456	2.584	.912	.380	.836	.456	.456	.076	.076	1.672
2	1	8	2	25	18,970	5.304	1.989	3.315	.051	.204	1.428	.561	.306	.459	.102	.204	.051	.051	.051-
3	5	8	3	31	43,670	24.426	8.850	15.576	.118	1.534	2.950	.826	.354	1.534	.236	.826	.590	.118	2.714
4	1	8	4	29	58,831	24.963	11.766	13.197	.159	1.431	6.201	2.544	1.113	1.908	.636	1.431	.636	.159	1.749
5	1	8	5	29	62,448	24.432	12.637	11.795	.337	1.685	6.066	2.359	1.348	2.190	.168	1.685	.842	.166	1.853
5	29	8	6	23	19,549	9.540	3.763	5.777	.053	.477	1.749	.583	.371	.636	.159	.477	.265	.053	.689
7	1	8	7	31	37,245	14.974	8.140	6.834	.201	1.306	1.608	.201	.201	.904	.301	.502	.502	.100	3.919
8	4	8	8	30	31,596	24.709	10.345	14.364	.513	1.624	4.275	1.197	.855	2.052	.171	1.539	.855	.085	1.453
9	8	8	9	30	18,743	15.453	8.029	7.423	.252	1.212	2.803	.656	.555	1.565	.050	.959	.707	.101	1.969

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

STATE: OKLAHOMA

MAJOR BASIN: SOUTHWEST-LOWER MISSISSIPPI RIVER

SUB BASIN: ARK. RIVER, KANS-COLO LINE TO TULSA

STATION LOCATION: ARKANSAS RIVER NEAR PONCA CITY, OKLAHOMA

DATE OF SAMPLE: BEGINNING			END		AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
											NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
3	31	8	4	9	18,976	11.373	4.488	6.885	.102	.918	1.785	.321	.306	1.020	.153	.510	.408	.051	.714
6	24	8	9	15	10,564	4.703	2.052	2.651	.029	.314	.998	.171	.228	.513	.086	.257	.114	.030	.314

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STATE: OREGON

MAJOR BASIN: PACIFIC NORTHWEST

SUB BASIN: COLUMBIA RIVER BELOW YAKIMA RIVER

STATION LOCATION: COLUMBIA RIVER AT BONNEVILLE, OREGON

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
11	18	7	12	2	96,336	18.463	3.900	14.560	.260	.780	1.560	.260	.260	1.040	.260-	.260	.260	.260	.520
12	23	7	1	6	103,675	19.040	3.640	15.400	.280	.840	1.120	.280-	.280-	.840	.280	.280	.280	.280	1.120
1	27	8	2	10	119,656	26.163	6.137	20.026	.323	1.615	1.935	.323	.323	1.292	.323-	.646	.323	.323	.969
3	3	8	3	17	168,316	39.996	9.090	30.906	.454	1.818	3.181	.454	.454	2.272	.454-	.909	.454	.454	1.818
3	31	8	4	14	170,123	48.247	16.082	32.165	.000	2.757	6.892	3.676	.459	2.297	.459	1.838	.919	.459	3.216
5	5	8	5	19	296,161	74.353	19.987	54.366	.000	3.997	8.794	1.599	.799	5.596	.799	3.198	1.599	.000	2.398
6	2	8	6	16	522,069	138.131	54.970	83.160	4.228	14.095	12.685	1.109	1.409	8.457	1.409	7.047	5.638	.000	11.261
7	14	8	7	28	177,670	19.659	6.233	13.426	.000	1.438	1.438	.479	.000	.959	.000	.959	.479	.000	1.918
8	11	8	8	25	114,553	26.883	12.978	13.905	.309	3.708	4.017	.309	.618	3.090	.000	1.545	.927	.309	2.163
9	8	8	9	22	97,647	14.756	5.270	9.486	.790	1.054	1.317	.263	.263	.790	.000	.527	.263	.000	1.317

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADING IN TONS PER DAY OVER SAMPLE PERIOD

STATE OREGON

MAJOR BASIN PACIFIC NORTHWEST

SUB BASIN COLUMBIA RIVER BELOW YAKIMA RIVER

STATION LOCATION COLUMBIA RIVER M552 AT CLATSKANIE, OREGON

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
4	4	8	5	13	228,775	104.357	23.465	80.892	.617	3.705	10.497	1.235	1.235	7.410	.617	2.470	1.235	.617	4.322
5	13	8	5	27	440,333	180.728	67.773	112.955	.000	13.079	30.914	13.079	4.756	11.890	1.189	5.945	2.378	1.189	14.268
6	16	8	7	3	364,556	231.357	165.396	65.961	17.721	29.535	58.085	17.721	11.814	23.628	4.922	12.798	12.798	1.969	32.488
8	1	8	8	13	134,615	53.071	19.629	33.442	.727	5.089	6.543	1.090	1.090	4.362	.000	2.544	1.817	.363	2.544
9	9	8	9	22	95,233	78.385	20.303	58.082	.257	4.112	7.196	1.542	1.028	4.112	.514	2.565	1.285	.514	4.369

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

STATE PENNSYLVANIA
MAJOR BASIN NORTH ATLANTIC
SUB BASIN DELAWARE-LEHIGH RIVERS
STATION LOCATION DELAWARE RIVER AT EASTON PENNSYLVANIA

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
2	1	8	2	7	7,761	1.764	.588	1.176	.042	.126	.252	.126	.021	.084	.021	.042	.021	.021	.084
2	28	8	3	11	14,458	7.878	1.716	6.162	.078	.351	.351	.078	.039	.234	.039-	.078	.078	.039	.741
3	31	8	4	9	34,940	12.946	4.819	8.127	.567	1.039	.850	.094	.094	.661	.094-	.378	.283	.094	1.606
5	1	8	5	8	18,275	6.138	1.831	4.306	.049	.396	.544	.099	.049	.396	.000	.139	.099	.049	.544
6	2	8	6	10	4,197	.943	.356	.586	.011	.080	.080	.011	.000	.069	.000	.034	.023	.000	.126
7	1	8	7	10	3,660	.680	.260	.420	.010	.060	.080	.010	.010	.060	.000	.030	.010	.010	.060
8	1	8	8	12	2,432	.403	.260	.143	.006	.065	.084	.006	.006	.065	.006	.019	.013	.006	.065
9	5	8	9	16	2,048	.313	.143	.173	.005	.038	.044	.005	.005	.033	.000	.011	.011	.005	.027

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STATE PENNSYLVANIA
MAJOR BASIN NORTH ATLANTIC
SUB BASIN DELAWARE-SCHUYLKILL RIVERS
STATION LOCATION DELAWARE RIVER M90 AT PHILADELPHIA, PENNSYLVANIA

STREAM LOADINGS IN TONS PER **DAY** OVER SAMPLE PERIOD

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES					CHLOROFORM EXTRACTABLES								
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
11	18	7	11	29	5,097	4.606	.868	3.738	.014	.196	.462	.140	.042	.210	.070	.056	.014	.014	.112
1	29	8	2	4	15,128	2.829	.984	1.845	.041	.205	.328	.082	.041	.164	.041	.082	.041	.041	.328
3	10	8	3	20	16,027	3.999	1.462	2.537	.043	.301	.817	.301	.129	.301	.086	.129	.043	.043	.086
5	12	8	5	20	18,362	8.712	2.574	6.138	.049	.247	1.039	.247	.148	.544	.099	.346	.198	.049	.643

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

STATE	SOUTH CAROLINA
MAJOR BASIN	SOUTHEAST
SUB BASIN	SAVANNAH RIVER
STATION LOCATION	SAVANNAH RIVER AT NORTH AUGUSTA, SOUTH CAROLINA

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
1	27	8	2	10	18,815	15.557	3.519	7.038	.713	.408	1.326	.357	.153	.765	.051	.306	.102	.051	.612
2	24	8	3	10	12,497	7.370	2.713	4.656	.234	.502	.569	.067	.033	.435	.033	.234	.134	.033	1.005
3	31	8	4	12	22,031	11.840	4.581	7.259	.476	1.071	.773	.059	.059	.595	.059	.297	.297	.059	1.606
5	12	8	5	22	10,535	5.557	2.394	3.163	.199	.541	.427	.028	.028	.313	.057	.199	.199	.028	.798
6	7	8	6	19	6,707	4.212	2.340	1.872	.306	.414	.486	.108	.054	.216	.108	.126	.144	.018	.846
8	2	8	8	15	8,381	4.837	2.002	2.835	.022	.472	.360	.000	.022	.292	.045	.135	.157	.045	.810
9	25	8	10	6	5,658	2.040	.750	1.290	.033	.225	.150	.015	.015	.120	.000	.060	.060	.030	.195

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STATE SOUTH DAKOTA

MAJOR BASIN MISSOURI RIVER

SUB BASIN LOWER MISSOURI RIVER

STATION LOCATION MISSOURI RIVER M841 AT YANKTON, SOUTH DAKOTA

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

Date of Sample: Beginning Month	Beginning Day	Beginning Year	End Month	End Day	Average Flow cfs	Extractables: Total	Extractables: Chloroform	Extractables: Alcohol	Chloroform Extractables: Ether Insolubles	Water Solubles	Neutrals: Total	Neutrals: Aliphatics	Neutrals: Aromatics	Neutrals: Oxygenated Compounds	Neutrals: Loss	Weak Acids	Strong Acids	Bases	Loss
10	28	7	11	19	13,673	6.808	.888	5.920	.000	.111	.370	.054	.074	.185	.037	.074	.111	.111	.111
11	18	7	12	9	8,682	3.572	.799	2.773	.023	.282	.282	.070	.023	.112	.070	.070	.047	.023	.070
12	23	7	1	6	9,373	2.473	.510	1.963	.025	.127	.178	.025	.025	.127	.025-	.051	.025	.025	.076
1	6	8	1	20	8,397	3.375	.720	2.655	.022	.180	.180	.022	.022	.112	.022	.045	.022	.022	.247
1	20	8	2	3	8,203	3.520	.792	2.728	.088	.198	.132	.022	.022	.088	.022-	.044	.044	.022	.264
2	17	8	3	3	8,466	1.794	.598	1.196	.023	.161	.184	.046	.023	.046	.069	.046	.023	.023	.138
3	31	8	4	14	21,887	8.083	1.888	6.195	.295	.177	.472	.059	.059	.354	.000	.472	.059	.059	.354
5	5	8	5	12	26,188	20.515	5.710	14.805	.070	1.692	.916	.070	.070	.705	.070	.352	.352	.141	2.185
5	26	8	6	9	27,513	11.618	2.812	8.806	.000	.592	.592	.000	.000	.518	.074	.296	.148	.074	1.110
6	23	8	7	7	27,927	16.232	5.511	10.721	.075	1.510	1.510	.075	.075	1.132	.226	.679	.528	.075	1.132
7	21	8	8	4	23,627	7.936	2.240	5.696	.064	.704	.704	.064	.064	.576	.000	.256	.128	.064	.320
8	18	8	9	2	29,181	10.744	3.713	7.031	.079	1.027	.948	.079	.079	.711	.079	.370	.316	.079	.869
9	2	8	9	15	28,936	13.338	4.134	9.204	.078	1.092	.858	.078	.078	.702	.000	.312	.312	.078	1.404
9	29	8	10	13	30,150	9.943	2.445	7.498	.000	.733	.489	.081	.081	.326	.000	.163	.163	.081	.815

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STATE: TENNESSEE

MAJOR BASIN: TENNESSEE RIVER

SUB BASIN: TENNESSEE MAIN STEM & MINOR TRIB.

STATION LOCATION: TENNESSEE RIVER M465.3 TVA AT CHATTANOOGA, TENNESSEE (SEE NOTE)

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

NOTE: Results may be influenced by discharge from South Chickamauga Creek.

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
3	12	8	3	20	35,422	32.661	12.510	20.150	.286	2.769	5.157	1.432	.764	2.769	.191	1.050	.668	.095	2.483
4	8	8	4	16	20,656	5.936	2.016	3.920	.056	.048	.784	.112	.056	.560	.056	.224	.112	.056	.336
5	5	8	5	14	58,310	28.507	10.237	18.270	.157	2.992	3.150	.315	.157	2.362	.315	.945	.787	.157	2.047
6	10	8	6	18	39,700	10.700	3.745	6.955	.107	.963	1.070	.107	.107	.749	.107	.535	.214	.107	.749
7	3	8	7	16	25,556	9.591	2.967	6.624	.069	.759	.782	.138	.138	.552	.000	.345	.207	.069	.690
8	12	8	8	17	35,300	13.465	4.297	9.168	.095	1.050	1.146	.095	.191	.859	.000	.382	.382	.000	1.241
9	8	8	9	17	37,850	11.322	4.182	7.140	.204	1.224	1.224	.102	.102	.918	.102	.408	.306	.102	.714

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STATE: TEXAS

MAJOR BASIN: SOUTHWEST-LOWER MISSISSIPPI RIVER

SUB BASIN: LOWER RED RIVER BELOW DENISON

STATION LOCATION: RED RIVER AT DENISON, TEXAS

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES					CHLOROFORM EXTRACTABLES								
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
8	4	8	8	13	3,124	2.660	1.122	1.538	.068	.238	.238	.034	.034	.153	.017	.093	.076	.008	.399
9	10	8	9	17	1,904	1.065	.510	.555	.005	.150	.130	.005	.015	.100	.010	.035	.055	.020	.115

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

STATE	TEXAS
MAJOR BASIN	WESTERN GULF
SUB BASIN	RIO GRANDE-UPPER-ABOVE PECOS
STATION LOCATION	RIO GRANDE RIVER AT EL PASO, TEXAS

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLOROFORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGENATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
4	7	8	4	22	1,483	1.164	.362	.812	.024	.024	.192	.076	.028	.076	.012	.028	.008	.004	.072
5	12	8	5	20	1,504	.568	.204	.362	.004	.048	.084	.020	.012	.052	.000	.024	.016	.004	.024
6	2	8	6	12	2,817	1.605	.517	1.087	.007	.127	.172	.037	.022	.105	.007	.060	.030	.007	.112
8	4	8	8	11	2,245	.714	.270	.444	.000	.072	.078	.006	.012	.054	.006	.024	.012	.006	.078
9	2	8	9	8	2,273	.690	.282	.408	.012	.072	.066	.012	.012	.042	.000	.030	.024	.006	.072

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

STATE TEXAS

MAJOR BASIN WESTERN GULF

SUB BASIN RIO GRAND-LOWER-BELOW PECOS

STATION LOCATION RIO GRANDE RIVER AT LAREDO, TEXAS

DATE OF SAMPLE: BEGINNING			END		AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
											NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
12	26	7	1	3	2,047	1.039	.170	.869	.005	.027	.071	.022	.016	.027	.005	.038	.005	.005	.016
1	16	8	1	23	1,775	.740	.140	.600	.005	.020	.075	.040	.005	.025	.005	.035	.005	.005-	.005-
2	3	8	2	12	1,789	.735	.170	.565	.005	.020	.105	.045	.015	.040	.005	.005	.005	.005	.025
3	4	8	3	12	2,024	.715	.126	.585	.005	.016	.071	.027	.005	.033	.005	.005	.005	.005	.016
3	25	8	4	3	1,516	2.848	.316	2.532	.000	.028	.200	.064	.020	.064	.052	.032	.020	.012	.024
4	29	8	5	6	1,261	.308	.129	.178	.003	.014	.077	.042	.010	.017	.007	.007	.003	.003	.021
5	26	8	6	2	1,569	.572	.228	.344	.004	.036	.120	.064	.016	.036	.004	.016	.008	.004	.040
7	8	8	7	16	3,068	2.464	-	-	-	-	-	-	-	-	-	-	-	-	-
7	29	8	8	7	1,625	1.467	.576	.891	.013	.103	.243	.108	.040	.094	.000	.054	.022	.013	.126
8	20	8	8	27	1,516	.276	.132	.144	.004	.020	.072	.044	.012	.016	.000	.008	.004	.004	.020
9	9	8	9	12	10,248	5.418	2.035	3.382	.000	.440	1.017	.467	.165	.385	.000	.165	.082	.055	.550
9	23	8	9	29	16,305	8.536	1.980	6.556	.000	.440	.792	.220	.132	.396	.044	.264	.044	.044	.396

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

STATE: WASHINGTON
MAJOR BASIN: PACIFIC NORTHWEST
SUB BASIN: MIDDLE & LOWER SNAKE RIVER
STATION LOCATION: COLUMBIA RIVER AT PASCO, WASHINGTON

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES					CHLOROFORM EXTRACTABLES									
BEGINNING			END								NEUTRALS									
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLOROFORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGENATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
11	4	7	11	15	63,750	20.468	2.924	17.544	.688	.172	.860	.172	.172	.516	.172-	.172	.344	.344	.344
12	2	7	12	9	61,250	16.550	3.144	13.405	.000	.662	1.324	.331	.165	.662	.165	.165	.165	.165-	.827
1	2	8	1	15	61,714	14.818	4.329	10.489	.166-	1.165	1.332	.333	.166	.832	.166-	.499	.333	.166-	.999
2	3	8	2	15	57,000	13.090	3.234	9.856	.000	.770	1.078	.154	.154	.616	.154	.462	.154	.154	.616
3	3	8	3	15	95,385	15.965	6.695	9.270	.257	1.545	2.317	.257	.257	1.545	.257	.772	.515	.257	1.030
3	31	8	4	22	88,956	48.000	16.080	31.920	.240	4.560	2.400	.240	.240	1.740	.000	1.200	1.200	.240	6.240
5	8	8	5	26	222,842	27.067	11.428	9.624	.000	2.406	3.640	1.203	.601	1.804	.000	1.203	1.203	.000	3.007
7	21	8	8	13	106,500	19.262	6.612	12.650	.000	1.725	1.725	.287	.000	1.437	.000	1.150	.579	.000	1.437

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STATE: WASHINGTON

MAJOR BASIN: PACIFIC NORTHWEST

SUB BASIN: MIDDLE AND LOWER SNAKE RIVER

STATION LOCATION: SNAKE RIVER AT WAWAWAI, WASHINGTON

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
8	4	8	8	18	21,913	8.614	3.658	4.956	.059	.649	2.065	.649	.472	.885	.059	.295	.118	.059	.413
9	3	8	9	15	22,163	7.080	3.060	4.020	.060	.660	1.020	.060	.120	.780	.060	.480	.240	.060	.540

WATER QUALITY BASIC DATA - MONTHLY REPORT

ORGANIC CHEMICALS

RECOVERED BY CARBON FILTER TECHNIQUE

STREAM LOADINGS IN TONS PER DAY OVER SAMPLE PERIOD

STATE	WEST VIRGINIA
MAJOR BASIN	OHIO RIVER
SUB BASIN	OHIO RIVER MAIN STEM & MINOR TRIB.
STATION LOCATION	OHIO RIVER AT HUNTINGTON, WEST VIRGINIA

DATE OF SAMPLE					AVERAGE FLOW cfs	EXTRACTABLES			CHLOROFORM EXTRACTABLES										
BEGINNING			END								NEUTRALS								
MONTH	DAY	YEAR	MONTH	DAY		TOTAL	CHLORO-FORM	ALCOHOL	ETHER INSOLUBLES	WATER SOLUBLES	TOTAL	ALIPHATICS	AROMATICS	OXYGEN-ATED COMPOUNDS	LOSS	WEAK ACIDS	STRONG ACIDS	BASES	LOSS
11	4	7	11	15	16,608	13.500	5.985	7.515	.180	1.440	2.475	.270	.180	1.890	.135	.405	.675	.225	.585
12	2	7	12	18	90,782	56.105	16.415	39.690	.245	2.940	7.595	.735	.980	5.635	.245	1.470	.735	.245	3.185
1	1	8	1	16	52,262	36.378	14.664	21.714	.846	2.538	6.345	1.551	1.128	3.666	.141	1.269	.705	.282	2.820
2	3	8	2	17	85,813	58.569	24.770	33.799	.463	3.935	10.880	1.389	.926	6.945	1.620	1.620	1.389	.231	6.250
3	3	8	3	22	98,695	80.483	37.576	42.906	1.332	9.327	15.457	1.332	2.398	8.261	2.931	2.931	2.665	1.066	4.797
3	31	8	4	18	57,579	38.408	16.016	22.392	.311	3.732	6.842	1.244	1.088	3.887	.622	1.244	.933	.311	2.643
5	5	8	5	16	299,500	70.593	53.361	17.232	8.085	4.851	20.212	3.234	3.234	11.319	2.425	7.276	2.425	.000	10.510
5	29	8	6	19	49,895	32.952	22.865	10.087	2.286	4.304	7.128	.269	.672	4.976	1.210	2.286	2.286	.403	4.169
7	2	8	7	16	64,707	59.155	26.349	32.806	1.570	5.758	7.329	.174	1.047	5.060	1.047	2.443	3.141	.523	5.584
8	1	8	8	18	129,228	93.881	32.108	61.773	1.047	6.282	9.772	1.047	1.364	6.282	1.047	6.980	2.792	.349	4.886
9	2	8	9	17	31,612	36.166	15.390	20.776	.342	3.078	3.078	.085	.171	2.479	.342	1.197	1.710	.171	5.814

PLANKTON POPULATION IN SURFACE WATERS 1957-1958

TOTAL ALGAE

NUMBER PER ML

	NO	MIN	MEAN	MED	MAX	DECILES /CUMULATIVE PERCENTAGES/ 10	20	30	40	50	60	70	80	90
ARKANSAS RIVER	11	860	4810	5500	8220	550	2200	3150	3700	5500	6600	7350	7900	8450
COLORADO RIVER	25	110	970	730	4840	150	290	440	590	730	880	1100	1600	2500
COLUMBIA RIVER	26	420	2820	2330	11980	370	740	1200	1850	2330	2770	3400	4400	5700
DELAWARE RIVER	15	420	1630	1420	4720	300	600	900	1170	1420	1670	1920	2500	3500
DETROIT RIVER	10	360	840	710	1490	140	280	430	570	710	860	1000	1330	1670
LAKE SUPERIOR	10	60	360	500	610	100	200	300	400	500	600	700	800	900
LAKE ERIE	9	140	490	560	1690	110	220	340	450	560	670	790	900	1100
HUDSON RIVER	3	1720	2390	1750	3730	1150	1300	1450	1600	1750	1900	3100	3400	3700
MERRIMACK RIVER	8	180	3510	2000	10950	270	530	800	1200	2000	2800	5600	7400	10200
MISSISSIPPI RIVER	69	230	8290	3580	53060	570	1110	1540	1970	3580	5200	7430	15200	29560
MISSOURI RIVER	71	20	3400	1650	19170	260	520	790	1110	1650	2370	3670	6160	7970
OHIO RIVER	42	320	2600	1550	24940	380	760	1090	1320	1550	1790	2070	2770	6400
POTOMAC RIVER	21	80	1950	1310	8570	260	520	790	1050	1310	1570	1840	2800	6450
RED RIVER	8	20	790	1000	1830	200	400	600	800	1000	1200	1400	1600	1800
RIO GRANDE	16	210	2280	1250	9140	230	460	680	910	1250	1650	2100	2900	7400
SAVANNAH RIVER	12	130	1200	540	10860	110	220	330	440	540	650	760	870	980
SNAKE RIVER	11	220	3400	2250	9020	370	730	1150	1700	2250	2800	3700	7800	8900
TENNESSEE RIVER	7	180	1360	870	4400	170	350	520	700	870	1100	1450	1800	4300
U.S. TOTAL	374	20	3460	1460	5310	260	510	770	1040	1460	1880	2840	4780	8100

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PLANKTON POPULATION IN SURFACE WATERS 1957-1958

GREEN COCCOID						NUMBER PER ML		DECILES /CUMULATIVE PERCENTAGES/						
	NO	MIN	MEAN	MED	MAX	10	20	30	40	50	60	70	80	90
ARKANSAS RIVER	9	10	290	120	880	20	40	70	90	120	170	430	810	850
COLORADO RIVER	23	10	140	100	530	20	40	60	80	100	130	170	240	430
COLUMBIA RIVER	25	10	150	100	450	20	40	60	80	100	150	220	300	380
DELAWARE RIVER	14	10	410	200	1800	20	40	60	80	200	270	380	920	1380
DETROIT RIVER	9	10	70	70	160	10	30	40	60	70	90	110	140	170
LAKE SUPERIOR	8	10	60	70	160	10	30	40	50	70	80	90	120	160
LAKE ERIE	9	20	90	70	190	10	30	40	60	70	90	110	140	170
HUDSON RIVER	3	190	330	350	410	130	160	190	320	350	380	410	440	470
MERRIMACK RIVER	7	10	620	170	2270	30	70	100	140	170	220	290	1380	2010
MISSISSIPPI RIVER	65	20	510	180	5060	40	80	110	150	180	240	340	670	1170
MISSOURI RIVER	58	10	220	90	1660	20	40	50	70	90	120	180	370	640
OHIO RIVER	32	10	330	120	2190	20	40	60	80	120	180	280	430	980
POTOMAC RIVER	17	10	270	90	1020	20	40	60	80	90	140	200	660	960
RED RIVER	5	70	150	150	250	50	100	120	130	150	170	180	200	250
RIO GRANDE	14	10	360	90	1900	20	30	50	70	90	140	480	810	880
SAVANNAH RIVER	12	10	410	60	4590	10	20	40	50	60	70	80	100	180
SNAKE RIVER	9	10	150	90	470	20	40	50	70	90	140	210	260	410
TENNESSEE RIVER	7	10	120	90	390	20	30	50	70	90	110	140	180	330
U.S. TOTAL	326	10	300	110	510	20	40	60	80	110	160	210	380	770

PLANKTON POPULATION IN SURFACE WATERS 1957-1958

CENTRIC DIATOMS

	NUMBER PER ML					DECILES /CUMULATIVE PERCENTAGES/								
	NO	MIN	MEAN	MED	MAX	10	20	30	40	50	60	70	80	90
ARKANSAS RIVER	11	30	1170	340	5270	70	140	210	270	340	410	480	2400	3450
COLORADO RIVER	25	10	170	270	1190	50	110	160	220	270	330	380	430	490
COLUMBIA RIVER	26	90	1320	600	9920	110	220	320	430	600	860	1200	1700	4100
DELAWARE RIVER	15	30	300	340	720	70	140	200	270	340	410	480	620	810
DETROIT RIVER	10	50	140	250	280	50	100	150	200	250	300	350	400	450
LAKE SUPERIOR	10	20	140	250	430	50	100	150	200	250	300	350	400	450
LAKE ERIE	9	20	280	280	1490	60	110	170	220	280	340	390	450	1050
HUDSON RIVER	3	540	1020	870	1700	570	650	720	800	870	950	1550	1700	1850
MERRIMACK RIVER	8	40	460	400	1230	80	160	240	320	400	480	650	850	1100
MISSISSIPPI RIVER	69	160	6890	2750	51770	380	670	920	1460	2750	4100	6320	12880	32330
MISSOURI RIVER	69	10	2360	710	19070	120	240	360	480	710	980	2040	4050	6270
OHIO RIVER	42	30	770	420	7040	80	170	250	340	420	510	810	1130	1480
POTOMAC RIVER	21	10	710	350	5880	70	140	210	280	350	420	490	800	1450
RED RIVER	7	20	360	440	660	90	170	260	350	440	530	650	770	880
RIO GRANDE	16	30	430	310	2760	60	120	180	250	310	370	430	490	1700
SAVANNAH RIVER	11	30	140	270	620	50	110	160	220	270	330	380	440	490
SNAKE RIVER	11	20	1020	310	6860	60	120	180	240	310	370	430	490	1950
TENNESSEE RIVER	7	60	890	290	4080	60	120	170	230	290	350	410	470	4150
U.S. TOTAL	370	10	2110	450	5180	90	180	270	360	450	630	960	2000	5330

PLANKTON POPULATION IN SURFACE WATERS 1957-1958

PENNATE DIATOMS

NUMBER PER ML

						DECILES /CUMULATIVE PERCENTAGES/								
	NO	MIN	MEAN	MED	MAX	10	20	30	40	50	60	70	80	90
ARKANSAS RIVER	11	530	3100	2120	7610	770	1530	1720	1900	2120	2400	2850	5400	7450
COLORADO RIVER	25	30	580	370	2820	70	150	220	290	370	440	580	1000	2120
COLUMBIA RIVER	26	270	1250	1000	3640	220	430	630	810	1000	1320	1650	1970	2600
DELAWARE RIVER	15	270	710	650	1600	120	250	370	500	650	800	950	1170	1420
DETROIT RIVER	10	80	570	620	1290	120	250	370	500	620	750	870	1000	1250
LAKE SUPERIOR	10	40	150	250	250	50	100	150	200	250	300	350	400	450
LAKE ERIE	9	30	80	250	280	50	100	150	200	250	300	350	400	450
HUDSON RIVER	3	190	750	750	1350	150	300	450	600	750	900	1050	1200	1350
MERRIMACK RIVER	8	80	1470	500	5250	100	200	300	400	500	900	1300	3200	5100
MISSISSIPPI RIVER	69	50	770	590	3780	110	230	340	460	590	720	850	980	1910
MISSOURI RIVER	71	10	860	550	6120	110	210	320	430	550	690	830	980	1970
OHIO RIVER	42	30	640	480	1630	90	190	290	380	480	610	750	890	1200
POTOMAC RIVER	21	60	910	580	5810	100	210	310	420	580	930	1140	1320	1490
RED RIVER	8	10	220	250	470	50	100	150	200	250	300	350	400	450
RIO GRANDE	16	170	940	860	2430	270	510	630	740	860	970	1150	1350	1700
SAVANNAH RIVER	12	30	220	270	1670	50	110	160	220	270	330	380	440	490
SNAKE RIVER	11	120	1580	1250	5230	180	370	570	850	1250	1650	1920	2400	2950
TENNESSEE RIVER	7	80	240	250	480	50	100	150	200	250	300	350	400	450
U.S. TOTAL	374	10	840	510	760	100	200	300	410	510	700	880	1220	1940

PLANKTON POPULATION IN SURFACE WATERS 1957-1958

TOTAL ALGAE

NUMBER PER ML

FREQUENCY DISTRIBUTION
UPPER CLASS LIMITS - THOUSANDS

	NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	OVR
ARKANSAS RIVER	11	2		1	2		1	1	2	2											
COLORADO RIVER	25	17	5	1	1	1															
COLUMBIA RIVER	26	7	4	6	3	2	2		1				1								
DELAWARE RIVER	15	5	6	2	1	1															
DETROIT RIVER	10	7	3																		
LAKE SUPERIOR	10	10																			
LAKE ERIE	9	8	1																		
HUDSON RIVER	3		2		1																
MERRIMACK RIVER	8	3	1	1			1		1			1									
MISSISSIPPI RIVER	69	12	16	3	6	3	7		3		2	1	1		1		1	1	1	1	10
MISSOURI RIVER	71	27	13	7	4	4	1	5	3	1		1		1	1			2			1
OHIO RIVER	42	11	18	6	2			2		1		1									1
POTOMAC RIVER	21	8	8	1	1			2		1											
RED RIVER	8	4	4																		
RIO GRANDE	16	7	4	2		1			1		1										
SAVANNAH RIVER	12	11										1									
SNAKE RIVER	11	3	2	2	1				1	1	1										
TENNESSEE RIVER	7	4	2			1															
U.S.TOTAL	374	146	89	32	22	13	12	10	12	6	4	5	2	1	2		1	3	1	1	12

PLANKTON POPULATION IN SURFACE WATERS 1957-1958

GREEN COCCOID

NUMBER PER ML

FREQUENCY DISTRIBUTION
UPPER CLASS LIMITS - HUNDREDS

	NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	OVR
ARKANSAS RIVER	9	4	2			1				2											
COLORADO RIVER	23	12	6	1	1	2	1														
COLUMBIA RIVER	25	13	4	3	3	2															
DELAWARE RIVER	14	7		2	1			1			1			1						1	
DETROIT RIVER	9	6	3																		
LAKE SUPERIOR	8	6	2																		
LAKE ERIE	9	6	3																		
HUDSON RIVER	3		1		1	1															
MERRIMACK RIVER	7	2	2	1										1							1
MISSISSIPPI RIVER	65	17	19	8	4	2		3	1	2	1		2				1	1			4
MISSOURI RIVER	58	32	11	2	2	2	2	3	1	1				1				1			
OHIO RIVER	32	15	5	3	2	2		1			1			1			1				1
POTOMAC RIVER	17	9	3			1		1			2	1									
RED RIVER	5	1	3	1																	
RIO GRANDE	14	8	1			1		1		2											1
SAVANNAH RIVER	12	10	1																		1
SNAKE RIVER	9	5	1	2		1															
TENNESSEE RIVER	7	4	2		1																
U.S.TOTAL	326	157	69	23	15	15	3	10	2	7	5	1	2	4			2	2		1	8

PLANKTON POPULATION IN SURFACE WATERS 1957-1958

CENTRIC DIATOMS

NUMBER PER ML

FREQUENCY DISTRIBUTION
UPPER CLASS LIMITS - HUNDREDS

	NO	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
ARKANSAS RIVER	11	8				1		1				1									
COLORADO RIVER	25	23	1	1																	
COLUMBIA RIVER	26	12	5	3	2	1				2											1
DELAWARE RIVER	15	11	4																		
DETROIT RIVER	10	10																			
LAKE SUPERIOR	10	10																			
LAKE ERIE	9	8		1																	
HUDSON RIVER	3		2		1																
MERRIMACK RIVER	8	5	2	1																	
MISSISSIPPI RIVER	69	9	14	5	4	2	1	5	1	2	3	1		2	1	2	1			1	15
MISSOURI RIVER	69	29	13	3	3	4	2		1	2	1	1	2	2	2						4
OHIO RIVER	42	25	7	6		2	1									1					
POTOMAC RIVER	21	15	3	1							1		1								
RED RIVER	7	4	3																		
RIO GRANDE	16	13	1		1		1														
SAVANNAH RIVER	11	10	1																		
SNAKE RIVER	11	9			1										1						
TENNESSEE RIVER	7	6								1											
U.S.TOTAL	370	207	56	21	12	10	5	6	2	7	5	3	3	4	4	3	1			1	20

PLANKTON POPULATION IN SURFACE WATERS 1957-1958

PENNATE DIATOMS

NUMBER PER ML

FREQUENCY DISTRIBUTION
UPPER CLASS LIMITS - HUNDREDS

	NO	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
ARKANSAS RIVER	11		2		3	2	1					1				1	1				
COLORADO RIVER	25	17	3	2		2	1														
COLUMBIA RIVER	26	6	7	4	4	2	2		1												
DELAWARE RIVER	15	6	5	3	1																
DETROIT RIVER	10	4	4	2																	
LAKE SUPERIOR	10	10																			
LAKE ERIE	9	9																			
HUDSON RIVER	3	1	1	1																	
MERRIMACK RIVER	8	4	1	1				1				1									
MISSISSIPPI RIVER	69	30	26	2	5	2	2	1	1												
MISSOURI RIVER	71	33	25	4	2	2		1	2		1			1							
OHIO RIVER	42	22	15	2	3																
POTOMAC RIVER	21	10	3	6		1							1								
RED RIVER	8	8																			
RIO GRANDE	16	3	7	4	1	1															
SAVANNAH RIVER	12	11			1																
SNAKE RIVER	11	3	2	1	2	1	1					1									
TENNESSEE RIVER	7	7																			
U.S.TOTAL	374	184	101	32	22	13	7	3	4		1	3	1	1		1	1				

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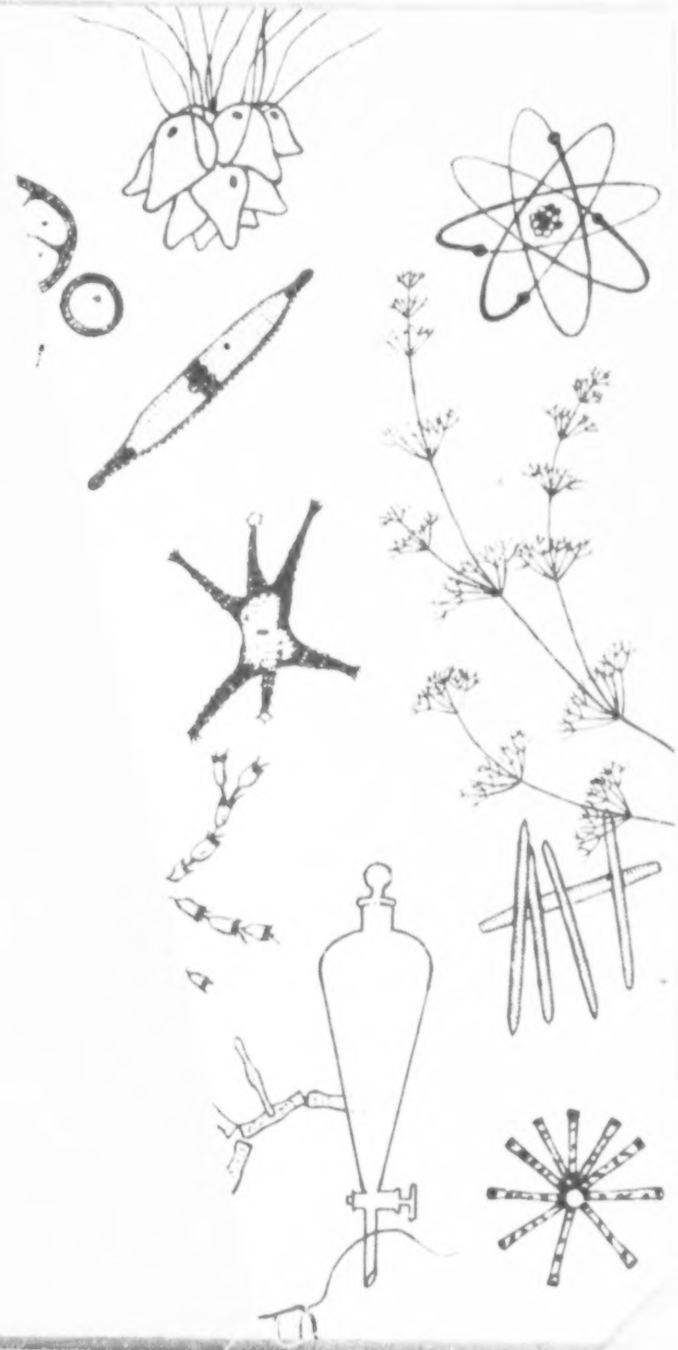
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